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31 October 2014



Lonnie Malouff  
Little Fishes, LLC  
536 CR 307  
Durango, CO 81303  
RE: Organics & Salinity

Enclosed are the results of analyses for samples received by the laboratory on 10/17/14 16:40.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water



Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
001	1410192-01	Solid	10/17/14 15:00	10/17/14 16:40
002	1410192-02	Solid	10/17/14 15:10	10/17/14 16:40
003	1410192-03	Solid	10/17/14 15:40	10/17/14 16:40
003	1410192-04	Solid	10/17/14 16:00	10/17/14 16:40

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Debbie Zufelt, Reports Manager

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536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

001

## 1410192-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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## General Chemistry

% Dry Solids	64.8			%	1	10/21/14	EPA160.3		ABP
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## Soluble (DI Water Extraction)

Chloride	<40.0	40.0	20.0	mg/kg dry	4	10/23/14	4500-Cl- C		ABP
Conductivity	485	10.0		uS/cm	1	10/20/14	2510 B		MJV

Subcontracted -- Cardinal Laboratories

## VOLATILES BY GC/MS

Dichlorodifluoromethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Chloromethane*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Vinyl chloride*	<0.050	0.050	0.020	mg/kg	50	10/27/14	8260B		MS
Bromomethane*	<0.050	0.050	0.034	mg/kg	50	10/27/14	8260B		MS
Chloroethane*	<0.050	0.050	0.031	mg/kg	50	10/27/14	8260B		MS
Trichlorofluoromethane*	<0.050	0.050	0.028	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloroethene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Carbon disulfide*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Iodomethane	<0.050	0.050	0.015	mg/kg	50	10/27/14	8260B		MS
Acrolein*	<2.50	2.50	0.082	mg/kg	50	10/27/14	8260B		MS
Methylene chloride*	<0.100	0.100	0.017	mg/kg	50	10/27/14	8260B		MS
Acetone*	<0.500	0.500	0.068	mg/kg	50	10/27/14	8260B		MS
trans-1,2-Dichloroethene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Methyl t-Butyl Ether*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloroethane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Acrylonitrile*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Vinyl acetate*	<0.250	0.250	0.012	mg/kg	50	10/27/14	8260B		MS
cis-1,2-Dichloroethene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
2,2-Dichloropropane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Bromochloromethane*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Chloroform*	<0.050	0.050	0.021	mg/kg	50	10/27/14	8260B		MS
Carbon tetrachloride*	<0.050	0.050	0.006	mg/kg	50	10/27/14	8260B		MS
1,1,1-Trichloroethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloropropene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
2-Butanone*	<0.250	0.250	0.034	mg/kg	50	10/27/14	8260B		MS
Benzene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS

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Debbie Zufelt, Reports Manager

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536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

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001

## 1410192-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

## VOLATILES BY GC/MS

1,2-Dichloroethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Trichloroethene*	<0.050	0.050	0.017	mg/kg	50	10/27/14	8260B		MS
Dibromomethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,2-Dichloropropane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Bromodichloromethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
cis-1,3-Dichloropropene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	10/27/14	8260B		MS
4-Methyl-2-pentanone*	<0.250	0.250	0.014	mg/kg	50	10/27/14	8260B		MS
Tetrachloroethene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
trans-1,3-Dichloropropene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,1,2-Trichloroethane*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Dibromochloromethane*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,3-Dichloropropane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dibromoethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
2-Hexanone*	<0.250	0.250	0.019	mg/kg	50	10/27/14	8260B		MS
Chlorobenzene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Ethylbenzene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
m+p - Xylene*	<0.100	0.100	0.028	mg/kg	50	10/27/14	8260B		MS
o-Xylene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Total Xylenes*	<0.150	0.150	0.042	mg/kg	50	10/27/14	8260B		MS
Bromoform*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Styrene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Isopropylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Bromobenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
n-Propylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
2-Chlorotoluene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2,3-trichloropropane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,3,5-Trimethylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
trans-1,4-Dichloro-2-butene	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
4-Chlorotoluene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS

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Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

001

1410192-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

tert-Butylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,2,4-Trimethylbenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
sec-Butylbenzene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
p-Isopropyltoluene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
1,3-Dichlorobenzene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
1,4 Dichlorobenzene*	<0.100	0.100	0.015	mg/kg	50	10/27/14	8260B		MS
n-Butylbenzene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dichlorobenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.050	0.050	0.029	mg/kg	50	10/27/14	8260B		MS
Hexachlorobutadiene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,2,4-Trichlorobenzene*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Naphthalene*	<0.050	0.050	0.009	mg/kg	50	10/27/14	8260B		MS
1,2,3-Trichlorobenzene*	<0.050	0.050	0.008	mg/kg	50	10/27/14	8260B		MS
2-Chloroethylvinyl ether	<0.050	0.050		mg/kg	50	10/27/14	8260B		MS
1,4-Dioxane	<2.50	2.50		mg/kg	50	10/27/14	8260B		MS
Surrogate: Dibromofluoromethane			96.1 %	80.8-114		10/27/14	8260B		MS
Surrogate: Toluene-d8			101 %	83.7-121		10/27/14	8260B		MS
Surrogate: 4-Bromofluorobenzene			100 %	57.9-154		10/27/14	8260B		MS

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Project: Organics & Salinity  
Project Name / Number: [none]  
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10/31/14 10:22

001

1410192-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Pyridine	<0.200	0.200	0.046	mg/kg	40	10/28/14	8270C		MS
N-Nitrosodimethylamine	<0.200	0.200	0.048	mg/kg	40	10/28/14	8270C		MS
2-Picoline	<0.200	0.200	0.048	mg/kg	40	10/28/14	8270C		MS
Methyl methanesulfonate	<0.200	0.200	0.067	mg/kg	40	10/28/14	8270C		MS
Ethyl methanesulfonate	<0.200	0.200	0.077	mg/kg	40	10/28/14	8270C		MS
Pentachloroethane	<0.200	0.200	0.052	mg/kg	40	10/28/14	8270C		MS
Aniline	<0.200	0.200	0.058	mg/kg	40	10/28/14	8270C		MS
Phenol	<0.200	0.200	0.066	mg/kg	40	10/28/14	8270C		MS
2-Chlorophenol	<0.200	0.200	0.069	mg/kg	40	10/28/14	8270C		MS
bis(2-Chloroethyl)ether	<0.200	0.200	0.050	mg/kg	40	10/28/14	8270C		MS
1,4-Dichlorobenzene	<0.600	0.600	0.059	mg/kg	40	10/28/14	8270C		MS
1,3-Dichlorobenzene	<0.040	0.040	0.011	mg/kg	40	10/28/14	8270C		MS
Benzyl alcohol	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
1,2-Dichlorobenzene	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS
bis(2-Chloroisopropyl)ether	<0.040	0.040	0.020	mg/kg	40	10/28/14	8270C		MS
Acetophenone	<0.040	0.040	0.026	mg/kg	40	10/28/14	8270C		MS
2-Methylphenol	<0.040	0.040	0.028	mg/kg	40	10/28/14	8270C		MS
4-Methylphenol	0.042	0.040	0.035	mg/kg	40	10/28/14	8270C		MS
Hexachloroethane	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS
N-Nitrosodi-n-propylamine	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
Nitrobenzene	<0.040	0.040	0.037	mg/kg	40	10/28/14	8270C		MS
N-Nitrosopiperidine	<0.040	0.040	0.040	mg/kg	40	10/28/14	8270C		MS
Isophorone	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS
2-Nitrophenol	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2,4-Dimethylphenol	<0.200	0.200	0.042	mg/kg	40	10/28/14	8270C		MS
bis(2-Chloroethoxy)methane	<0.040	0.040	0.028	mg/kg	40	10/28/14	8270C		MS
2,6-Dichlorophenol	<0.040	0.040	0.022	mg/kg	40	10/28/14	8270C		MS
1,2,4-Trichlorobenzene	<0.200	0.200	0.040	mg/kg	40	10/28/14	8270C		MS
Naphthalene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2,4-Dichlorophenol	<0.040	0.040	0.040	mg/kg	40	10/28/14	8270C		MS
4-Chloroaniline	<0.040	0.040	0.032	mg/kg	40	10/28/14	8270C		MS
Hexachloropropene	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS

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1410192-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Hexachlorobutadiene	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS
N-Nitroso-di-n-butylamine	<0.040	0.040	0.029	mg/kg	40	10/28/14	8270C		MS
4-Chloro-3-methylphenol	<0.040	0.040	0.034	mg/kg	40	10/28/14	8270C		MS
Safrole	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2-Methylnaphthalene	<0.040	0.040	0.034	mg/kg	40	10/28/14	8270C		MS
1,2,4,5-Tetrachlorobenzene	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS
Caprolactam	<0.200	0.200		mg/kg	40	10/28/14	8270C		MS
Hexachlorocyclopentadiene	<0.040	0.040	0.032	mg/kg	40	10/28/14	8270C		MS
2,4,6-Trichlorophenol	<0.040	0.040	0.036	mg/kg	40	10/28/14	8270C		MS
2,4,5-Trichlorophenol	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
Isosafrole	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2-Chloronaphthalene	<0.040	0.040	0.039	mg/kg	40	10/28/14	8270C		MS
2-Nitroaniline	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS
Dimethylphthalate	<0.100	0.100	0.030	mg/kg	40	10/28/14	8270C		MS
Acenaphthylene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2,6-Dinitrotoluene	<0.040	0.040	0.029	mg/kg	40	10/28/14	8270C		MS
3-Nitroaniline	<0.040	0.040	0.037	mg/kg	40	10/28/14	8270C		MS
Acenaphthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2,4-Dinitrophenol*	<0.040	0.040	0.017	mg/kg	40	10/28/14	8270C		MS
Dibenzofuran	<0.040	0.040	0.022	mg/kg	40	10/28/14	8270C		MS
4-Nitrophenol	<0.040	0.040	0.032	mg/kg	40	10/28/14	8270C		MS
Pentachlorobenzene	<0.040	0.040	0.022	mg/kg	40	10/28/14	8270C		MS
2,4-Dinitrotoluene	<0.040	0.040	0.018	mg/kg	40	10/28/14	8270C		MS
2-Naphthylamine	<0.040	0.040	0.020	mg/kg	40	10/28/14	8270C		MS
1-Naphthylamine	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2,3,4,6-Tetrachlorophenol	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS
Fluorene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Diethylphthalate	<0.040	0.040	0.026	mg/kg	40	10/28/14	8270C		MS
4-Chlorophenyl-phenyl ether	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
5-Nitro-o-toluidine	<0.040	0.040	0.037	mg/kg	40	10/28/14	8270C		MS
4-Nitroaniline	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS
4,6-Dinitro-2-methylphenol	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS

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536 CR 307  
Durango CO, 81303

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Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

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1410192-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Diphenylamine	<0.040	0.040	0.036	mg/kg	40	10/28/14	8270C		MS
Azobenzene	<0.040	0.040	0.039	mg/kg	40	10/28/14	8270C		MS
1,3,5-Trinitrobenzene	<0.040	0.040	0.019	mg/kg	40	10/28/14	8270C		MS
4-Bromophenyl-phenyl ether	<0.200	0.200	0.060	mg/kg	40	10/28/14	8270C		MS
Phenacetin	<0.040	0.040	0.019	mg/kg	40	10/28/14	8270C		MS
Diallate	<0.200	0.200	0.049	mg/kg	40	10/28/14	8270C		MS
Hexachlorobenzene	<0.200	0.200	0.042	mg/kg	40	10/28/14	8270C		MS
4-Aminobiphenyl	<0.040	0.040	0.039	mg/kg	40	10/28/14	8270C		MS
Pentachlorophenol	<0.040	0.040	0.029	mg/kg	40	10/28/14	8270C		MS
Pentachloronitrobenzene	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
Pronamide	<0.040	0.040	0.028	mg/kg	40	10/28/14	8270C		MS
Phenanthrene	<0.080	0.080	0.002	mg/kg	40	10/28/14	8270C		MS
Anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Dinoseb	<0.200	0.200	0.019	mg/kg	40	10/28/14	8270C		MS
Carbazole	<0.040	0.040	0.004	mg/kg	40	10/28/14	8270C		MS
Di-n-butylphthalate	<0.120	0.120	0.012	mg/kg	40	10/28/14	8270C		MS
Isodrin	<0.040	0.040	0.017	mg/kg	40	10/28/14	8270C		MS
Fluoranthene	<0.080	0.080	0.003	mg/kg	40	10/28/14	8270C		MS
Benzidine	<0.200	0.200	0.021	mg/kg	40	10/28/14	8270C		MS
Pyrene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Dimethylaminoazobenzene	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS
Chlorobenzilate	<0.040	0.040	0.027	mg/kg	40	10/28/14	8270C		MS
Butylbenzylphthalate	<0.080	0.080	0.013	mg/kg	40	10/28/14	8270C		MS
Benzo[a]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
3,3'-Dichlorobenzidine	<0.200	0.200	0.068	mg/kg	40	10/28/14	8270C		MS
Chrysene	<0.040	0.040	0.005	mg/kg	40	10/28/14	8270C		MS
bis(2-Ethylhexyl)phthalate	<0.400	0.400	0.029	mg/kg	40	10/28/14	8270C		MS
Di-n-octylphthalate	<0.200	0.200	0.111	mg/kg	40	10/28/14	8270C		MS
Benzo[b]fluoranthene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Benzo[k]fluoranthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[a]pyrene	<0.008	0.008	0.002	mg/kg	40	10/28/14	8270C		MS
3-Methylcholanthrene	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

001

1410192-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Indeno[1,2,3-cd]pyrene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
Dibenz[a,h]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[g,h,i]perylene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
bis(Chloromethyl)ether	<0.008	0.008		mg/kg	40	10/28/14	8270C		MS
Quinoline	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
N-Nitrosodiphenylamine	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
Nonylphenol	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
1,2-Diphenylhydrazine	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
Surrogate: 2-Fluorophenol			68.1 %	21-100		10/28/14	8270C		MS
Surrogate: Phenol-d5			64.8 %	10-94		10/28/14	8270C		MS
Surrogate: Nitrobenzene-d5			79.0 %	35-114		10/28/14	8270C		MS
Surrogate: 2-Fluorobiphenyl			69.3 %	43-116		10/28/14	8270C		MS
Surrogate: 2,4,6-Tribromophenol			83.7 %	10-123		10/28/14	8270C		MS
Surrogate: Terphenyl-d14			76.7 %	33-141		10/28/14	8270C		MS

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Debbie Zufelt, Reports Manager

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536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

002

1410192-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	85.9			%	1	10/21/14	EPA160.3		ABP
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Soluble (DI Water Extraction)

Chloride	<40.0	40.0	20.0	mg/kg dry	4	10/23/14	4500-Cl- C		ABP
Conductivity	148	10.0		uS/cm	1	10/20/14	2510 B		MJV

Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	10/23/14	8015B		ms
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	10/23/14	8015B		ms
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	10/23/14	8015B		ms

Surrogate: 1-Chlorooctane	104 %	47.2-157	10/23/14	8015B	ms
Surrogate: 1-Chlorooctadecane	149 %	52.1-176	10/23/14	8015B	ms

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536 CR 307  
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Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

002

1410192-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

#### VOLATILES BY GC/MS

Dichlorodifluoromethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Chloromethane*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Vinyl chloride*	<0.050	0.050	0.020	mg/kg	50	10/27/14	8260B		MS
Bromomethane*	<0.050	0.050	0.034	mg/kg	50	10/27/14	8260B		MS
Chloroethane*	<0.050	0.050	0.031	mg/kg	50	10/27/14	8260B		MS
Trichlorofluoromethane*	<0.050	0.050	0.028	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloroethene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Carbon disulfide*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Iodomethane	<0.050	0.050	0.015	mg/kg	50	10/27/14	8260B		MS
Acrolein*	<2.50	2.50	0.082	mg/kg	50	10/27/14	8260B		MS
Methylene chloride*	0.155	0.100	0.017	mg/kg	50	10/27/14	8260B		MS
Acetone*	<0.500	0.500	0.068	mg/kg	50	10/27/14	8260B		MS
trans-1,2-Dichloroethene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Methyl t-Butyl Ether*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloroethane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Acrylonitrile*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Vinyl acetate*	<0.250	0.250	0.012	mg/kg	50	10/27/14	8260B		MS
cis-1,2-Dichloroethene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
2,2-Dichloropropane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Bromochloromethane*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Chloroform*	<0.050	0.050	0.021	mg/kg	50	10/27/14	8260B		MS
Carbon tetrachloride*	<0.050	0.050	0.006	mg/kg	50	10/27/14	8260B		MS
1,1,1-Trichloroethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloropropene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
2-Butanone*	<0.250	0.250	0.034	mg/kg	50	10/27/14	8260B		MS
Benzene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dichloroethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Trichloroethene*	<0.050	0.050	0.017	mg/kg	50	10/27/14	8260B		MS
Dibromomethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,2-Dichloropropane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Bromodichloromethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
cis-1,3-Dichloropropene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

002

1410192-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

Toluene*	<0.050	0.050	0.015	mg/kg	50	10/27/14	8260B		MS
4-Methyl-2-pentanone*	<0.250	0.250	0.014	mg/kg	50	10/27/14	8260B		MS
Tetrachloroethene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
trans-1,3-Dichloropropene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,1,2-Trichloroethane*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Dibromochloromethane*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,3-Dichloropropane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dibromoethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
2-Hexanone*	<0.250	0.250	0.019	mg/kg	50	10/27/14	8260B		MS
Chlorobenzene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Ethylbenzene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
m+p - Xylene*	<0.100	0.100	0.028	mg/kg	50	10/27/14	8260B		MS
o-Xylene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Total Xylenes*	<0.150	0.150	0.042	mg/kg	50	10/27/14	8260B		MS
Bromoform*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Styrene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Isopropylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Bromobenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
n-Propylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
2-Chlorotoluene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2,3-trichloropropane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,3,5-Trimethylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
trans-1,4-Dichloro-2-butene	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
4-Chlorotoluene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
tert-Butylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,2,4-Trimethylbenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
sec-Butylbenzene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
p-Isopropyltoluene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
1,3-Dichlorobenzene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
1,4 Dichlorobenzene*	<0.100	0.100	0.015	mg/kg	50	10/27/14	8260B		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

002

1410192-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

n-Butylbenzene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dichlorobenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.050	0.050	0.029	mg/kg	50	10/27/14	8260B		MS
Hexachlorobutadiene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,2,4-Trichlorobenzene*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Naphthalene*	<0.050	0.050	0.009	mg/kg	50	10/27/14	8260B		MS
1,2,3-Trichlorobenzene*	<0.050	0.050	0.008	mg/kg	50	10/27/14	8260B		MS
2-Chloroethylvinyl ether	<0.050	0.050		mg/kg	50	10/27/14	8260B		MS
1,4-Dioxane	<2.50	2.50		mg/kg	50	10/27/14	8260B		MS
Surrogate: Dibromofluoromethane			97.4 %	80.8-114		10/27/14	8260B		MS
Surrogate: Toluene-d8			102 %	83.7-121		10/27/14	8260B		MS
Surrogate: 4-Bromofluorobenzene			101 %	57.9-154		10/27/14	8260B		MS

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Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

002

1410192-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Pyridine	<0.200	0.200	0.046	mg/kg	40	10/28/14	8270C		MS
N-Nitrosodimethylamine	<0.200	0.200	0.048	mg/kg	40	10/28/14	8270C		MS
2-Picoline	<0.200	0.200	0.048	mg/kg	40	10/28/14	8270C		MS
Methyl methanesulfonate	<0.200	0.200	0.067	mg/kg	40	10/28/14	8270C		MS
Ethyl methanesulfonate	<0.200	0.200	0.077	mg/kg	40	10/28/14	8270C		MS
Pentachloroethane	<0.200	0.200	0.052	mg/kg	40	10/28/14	8270C		MS
Aniline	<0.200	0.200	0.058	mg/kg	40	10/28/14	8270C		MS
Phenol	<0.200	0.200	0.066	mg/kg	40	10/28/14	8270C		MS
2-Chlorophenol	<0.200	0.200	0.069	mg/kg	40	10/28/14	8270C		MS
bis(2-Chloroethyl)ether	<0.200	0.200	0.050	mg/kg	40	10/28/14	8270C		MS
1,4-Dichlorobenzene	<0.200	0.200	0.059	mg/kg	40	10/28/14	8270C		MS
1,3-Dichlorobenzene	<0.040	0.040	0.011	mg/kg	40	10/28/14	8270C		MS
Benzyl alcohol	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
1,2-Dichlorobenzene	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS
bis(2-Chloroisopropyl)ether	<0.040	0.040	0.020	mg/kg	40	10/28/14	8270C		MS
Acetophenone	<0.040	0.040	0.026	mg/kg	40	10/28/14	8270C		MS
2-Methylphenol	<0.040	0.040	0.028	mg/kg	40	10/28/14	8270C		MS
4-Methylphenol	<0.040	0.040	0.035	mg/kg	40	10/28/14	8270C		MS
Hexachloroethane	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS
N-Nitrosodi-n-propylamine	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
Nitrobenzene	<0.040	0.040	0.037	mg/kg	40	10/28/14	8270C		MS
N-Nitrosopiperidine	<0.040	0.040	0.040	mg/kg	40	10/28/14	8270C		MS
Isophorone	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS
2-Nitrophenol	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2,4-Dimethylphenol	<0.200	0.200	0.042	mg/kg	40	10/28/14	8270C		MS
bis(2-Chloroethoxy)methane	<0.040	0.040	0.028	mg/kg	40	10/28/14	8270C		MS
2,6-Dichlorophenol	<0.040	0.040	0.022	mg/kg	40	10/28/14	8270C		MS
1,2,4-Trichlorobenzene	<0.200	0.200	0.040	mg/kg	40	10/28/14	8270C		MS
Naphthalene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2,4-Dichlorophenol	<0.040	0.040	0.040	mg/kg	40	10/28/14	8270C		MS
4-Chloroaniline	<0.040	0.040	0.032	mg/kg	40	10/28/14	8270C		MS
Hexachloropropene	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

002

1410192-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Hexachlorobutadiene	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS
N-Nitroso-di-n-butylamine	<0.040	0.040	0.029	mg/kg	40	10/28/14	8270C		MS
4-Chloro-3-methylphenol	<0.040	0.040	0.034	mg/kg	40	10/28/14	8270C		MS
Safrole	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2-Methylnaphthalene	<0.040	0.040	0.034	mg/kg	40	10/28/14	8270C		MS
1,2,4,5-Tetrachlorobenzene	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS
Caprolactam	<0.200	0.200		mg/kg	40	10/28/14	8270C		MS
Hexachlorocyclopentadiene	<0.040	0.040	0.032	mg/kg	40	10/28/14	8270C		MS
2,4,6-Trichlorophenol	<0.040	0.040	0.036	mg/kg	40	10/28/14	8270C		MS
2,4,5-Trichlorophenol	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
Isosafrole	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2-Chloronaphthalene	<0.040	0.040	0.039	mg/kg	40	10/28/14	8270C		MS
2-Nitroaniline	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS
Dimethylphthalate	<0.100	0.100	0.030	mg/kg	40	10/28/14	8270C		MS
Acenaphthylene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2,6-Dinitrotoluene	<0.040	0.040	0.029	mg/kg	40	10/28/14	8270C		MS
3-Nitroaniline	<0.040	0.040	0.037	mg/kg	40	10/28/14	8270C		MS
Acenaphthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2,4-Dinitrophenol*	<0.040	0.040	0.017	mg/kg	40	10/28/14	8270C		MS
Dibenzofuran	<0.040	0.040	0.022	mg/kg	40	10/28/14	8270C		MS
4-Nitrophenol	<0.040	0.040	0.032	mg/kg	40	10/28/14	8270C		MS
Pentachlorobenzene	<0.040	0.040	0.022	mg/kg	40	10/28/14	8270C		MS
2,4-Dinitrotoluene	<0.040	0.040	0.018	mg/kg	40	10/28/14	8270C		MS
2-Naphthylamine	<0.040	0.040	0.020	mg/kg	40	10/28/14	8270C		MS
1-Naphthylamine	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2,3,4,6-Tetrachlorophenol	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS
Fluorene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Diethylphthalate	<0.040	0.040	0.026	mg/kg	40	10/28/14	8270C		MS
4-Chlorophenyl-phenyl ether	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
5-Nitro-o-toluidine	<0.040	0.040	0.037	mg/kg	40	10/28/14	8270C		MS
4-Nitroaniline	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS
4,6-Dinitro-2-methylphenol	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

002

1410192-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Diphenylamine	<0.040	0.040	0.036	mg/kg	40	10/28/14	8270C		MS
Azobenzene	<0.040	0.040	0.039	mg/kg	40	10/28/14	8270C		MS
1,3,5-Trinitrobenzene	<0.040	0.040	0.019	mg/kg	40	10/28/14	8270C		MS
4-Bromophenyl-phenyl ether	<0.200	0.200	0.060	mg/kg	40	10/28/14	8270C		MS
Phenacetin	<0.040	0.040	0.019	mg/kg	40	10/28/14	8270C		MS
Diallate	<0.200	0.200	0.049	mg/kg	40	10/28/14	8270C		MS
Hexachlorobenzene	<0.200	0.200	0.042	mg/kg	40	10/28/14	8270C		MS
4-Aminobiphenyl	<0.040	0.040	0.039	mg/kg	40	10/28/14	8270C		MS
Pentachlorophenol	<0.040	0.040	0.029	mg/kg	40	10/28/14	8270C		MS
Pentachloronitrobenzene	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
Pronamide	<0.040	0.040	0.028	mg/kg	40	10/28/14	8270C		MS
Phenanthrene	<0.080	0.080	0.002	mg/kg	40	10/28/14	8270C		MS
Anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Dinoseb	<0.200	0.200	0.019	mg/kg	40	10/28/14	8270C		MS
Carbazole	<0.040	0.040	0.004	mg/kg	40	10/28/14	8270C		MS
Di-n-butylphthalate	<0.120	0.120	0.012	mg/kg	40	10/28/14	8270C		MS
Isodrin	<0.040	0.040	0.017	mg/kg	40	10/28/14	8270C		MS
Fluoranthene	<0.080	0.080	0.003	mg/kg	40	10/28/14	8270C		MS
Benzidine	<0.200	0.200	0.021	mg/kg	40	10/28/14	8270C		MS
Pyrene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Dimethylaminoazobenzene	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS
Chlorobenzilate	<0.040	0.040	0.027	mg/kg	40	10/28/14	8270C		MS
Butylbenzylphthalate	<0.080	0.080	0.013	mg/kg	40	10/28/14	8270C		MS
Benzo[a]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
3,3'-Dichlorobenzidine	<0.200	0.200	0.068	mg/kg	40	10/28/14	8270C		MS
Chrysene	<0.040	0.040	0.005	mg/kg	40	10/28/14	8270C		MS
bis(2-Ethylhexyl)phthalate	<0.400	0.400	0.029	mg/kg	40	10/28/14	8270C		MS
Di-n-octylphthalate	<0.200	0.200	0.111	mg/kg	40	10/28/14	8270C		MS
Benzo[b]fluoranthene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Benzo[k]fluoranthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[a]pyrene	<0.008	0.008	0.002	mg/kg	40	10/28/14	8270C		MS
3-Methylcholanthrene	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

002

1410192-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Indeno[1,2,3-cd]pyrene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
Dibenz[a,h]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[g,h,i]perylene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
bis(Chloromethyl)ether	<0.008	0.008		mg/kg	40	10/28/14	8270C		MS
Quinoline	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
N-Nitrosodiphenylamine	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
Nonylphenol	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
1,2-Diphenylhydrazine	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
Surrogate: 2-Fluorophenol			70.6 %	21-100		10/28/14	8270C		MS
Surrogate: Phenol-d5			66.0 %	10-94		10/28/14	8270C		MS
Surrogate: Nitrobenzene-d5			78.0 %	35-114		10/28/14	8270C		MS
Surrogate: 2-Fluorobiphenyl			69.7 %	43-116		10/28/14	8270C		MS
Surrogate: 2,4,6-Tribromophenol			81.9 %	10-123		10/28/14	8270C		MS
Surrogate: Terphenyl-d14			78.4 %	33-141		10/28/14	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	83.0			%	1	10/21/14	EPA160.3		ABP
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Soluble (DI Water Extraction)

Chloride	<40.0	40.0	20.0	mg/kg dry	4	10/23/14	4500-Cl- C		ABP
Conductivity	96.6	10.0		uS/cm	1	10/20/14	2510 B		MJV

Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	10/23/14	8015B		ms
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	10/23/14	8015B		ms
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	10/23/14	8015B		ms

Surrogate: 1-Chlorooctane	104 %	47.2-157	10/23/14	8015B	ms
Surrogate: 1-Chlorooctadecane	128 %	52.1-176	10/23/14	8015B	ms

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

Dichlorodifluoromethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Chloromethane*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Vinyl chloride*	<0.050	0.050	0.020	mg/kg	50	10/27/14	8260B		MS
Bromomethane*	<0.050	0.050	0.034	mg/kg	50	10/27/14	8260B		MS
Chloroethane*	<0.050	0.050	0.031	mg/kg	50	10/27/14	8260B		MS
Trichlorofluoromethane*	<0.050	0.050	0.028	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloroethene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Carbon disulfide*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Iodomethane	<0.050	0.050	0.015	mg/kg	50	10/27/14	8260B		MS
Acrolein*	<2.50	2.50	0.082	mg/kg	50	10/27/14	8260B		MS
Methylene chloride*	<0.100	0.100	0.017	mg/kg	50	10/27/14	8260B		MS
Acetone*	<0.500	0.500	0.068	mg/kg	50	10/27/14	8260B		MS
trans-1,2-Dichloroethene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Methyl t-Butyl Ether*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloroethane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Acrylonitrile*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Vinyl acetate*	<0.250	0.250	0.012	mg/kg	50	10/27/14	8260B		MS
cis-1,2-Dichloroethene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
2,2-Dichloropropane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Bromochloromethane*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Chloroform*	<0.050	0.050	0.021	mg/kg	50	10/27/14	8260B		MS
Carbon tetrachloride*	<0.050	0.050	0.006	mg/kg	50	10/27/14	8260B		MS
1,1,1-Trichloroethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloropropene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
2-Butanone*	<0.250	0.250	0.034	mg/kg	50	10/27/14	8260B		MS
Benzene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dichloroethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Trichloroethene*	<0.050	0.050	0.017	mg/kg	50	10/27/14	8260B		MS
Dibromomethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,2-Dichloropropane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Bromodichloromethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
cis-1,3-Dichloropropene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

#### VOLATILES BY GC/MS

Toluene*	<0.050	0.050	0.015	mg/kg	50	10/27/14	8260B		MS
4-Methyl-2-pentanone*	<0.250	0.250	0.014	mg/kg	50	10/27/14	8260B		MS
Tetrachloroethene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
trans-1,3-Dichloropropene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,1,2-Trichloroethane*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Dibromochloromethane*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,3-Dichloropropane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dibromoethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
2-Hexanone*	<0.250	0.250	0.019	mg/kg	50	10/27/14	8260B		MS
Chlorobenzene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Ethylbenzene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
m+p - Xylene*	<0.100	0.100	0.028	mg/kg	50	10/27/14	8260B		MS
o-Xylene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Total Xylenes*	<0.150	0.150	0.042	mg/kg	50	10/27/14	8260B		MS
Bromoform*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Styrene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Isopropylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Bromobenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
n-Propylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
2-Chlorotoluene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2,3-trichloropropane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,3,5-Trimethylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
trans-1,4-Dichloro-2-butene	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
4-Chlorotoluene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
tert-Butylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,2,4-Trimethylbenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
sec-Butylbenzene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
p-Isopropyltoluene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
1,3-Dichlorobenzene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
1,4 Dichlorobenzene*	<0.100	0.100	0.015	mg/kg	50	10/27/14	8260B		MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

n-Butylbenzene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dichlorobenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.050	0.050	0.029	mg/kg	50	10/27/14	8260B		MS
Hexachlorobutadiene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,2,4-Trichlorobenzene*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Naphthalene*	<0.050	0.050	0.009	mg/kg	50	10/27/14	8260B		MS
1,2,3-Trichlorobenzene*	<0.050	0.050	0.008	mg/kg	50	10/27/14	8260B		MS
2-Chloroethylvinyl ether	<0.050	0.050		mg/kg	50	10/27/14	8260B		MS
1,4-Dioxane	<2.50	2.50		mg/kg	50	10/27/14	8260B		MS
Surrogate: Dibromofluoromethane			101 %	80.8-114		10/27/14	8260B		MS
Surrogate: Toluene-d8			101 %	83.7-121		10/27/14	8260B		MS
Surrogate: 4-Bromofluorobenzene			97.2 %	57.9-154		10/27/14	8260B		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Pyridine	<0.200	0.200	0.046	mg/kg	40	10/28/14	8270C		MS
N-Nitrosodimethylamine	<0.200	0.200	0.048	mg/kg	40	10/28/14	8270C		MS
2-Picoline	<0.200	0.200	0.048	mg/kg	40	10/28/14	8270C		MS
Methyl methanesulfonate	<0.200	0.200	0.067	mg/kg	40	10/28/14	8270C		MS
Ethyl methanesulfonate	<0.200	0.200	0.077	mg/kg	40	10/28/14	8270C		MS
Pentachloroethane	<0.200	0.200	0.052	mg/kg	40	10/28/14	8270C		MS
Aniline	<0.200	0.200	0.058	mg/kg	40	10/28/14	8270C		MS
Phenol	<0.200	0.200	0.066	mg/kg	40	10/28/14	8270C		MS
2-Chlorophenol	<0.200	0.200	0.069	mg/kg	40	10/28/14	8270C		MS
bis(2-Chloroethyl)ether	<0.200	0.200	0.050	mg/kg	40	10/28/14	8270C		MS
1,4-Dichlorobenzene	<0.200	0.200	0.059	mg/kg	40	10/28/14	8270C		MS
1,3-Dichlorobenzene	<0.040	0.040	0.011	mg/kg	40	10/28/14	8270C		MS
Benzyl alcohol	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
1,2-Dichlorobenzene	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS
bis(2-Chloroisopropyl)ether	<0.040	0.040	0.020	mg/kg	40	10/28/14	8270C		MS
Acetophenone	<0.040	0.040	0.026	mg/kg	40	10/28/14	8270C		MS
2-Methylphenol	<0.040	0.040	0.028	mg/kg	40	10/28/14	8270C		MS
4-Methylphenol	<0.040	0.040	0.035	mg/kg	40	10/28/14	8270C		MS
Hexachloroethane	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS
N-Nitrosodi-n-propylamine	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
Nitrobenzene	<0.040	0.040	0.037	mg/kg	40	10/28/14	8270C		MS
N-Nitrosopiperidine	<0.040	0.040	0.040	mg/kg	40	10/28/14	8270C		MS
Isophorone	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS
2-Nitrophenol	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2,4-Dimethylphenol	<0.200	0.200	0.042	mg/kg	40	10/28/14	8270C		MS
bis(2-Chloroethoxy)methane	<0.040	0.040	0.028	mg/kg	40	10/28/14	8270C		MS
2,6-Dichlorophenol	<0.040	0.040	0.022	mg/kg	40	10/28/14	8270C		MS
1,2,4-Trichlorobenzene	<0.200	0.200	0.040	mg/kg	40	10/28/14	8270C		MS
Naphthalene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2,4-Dichlorophenol	<0.040	0.040	0.040	mg/kg	40	10/28/14	8270C		MS
4-Chloroaniline	<0.040	0.040	0.032	mg/kg	40	10/28/14	8270C		MS
Hexachloropropene	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Hexachlorobutadiene	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS
N-Nitroso-di-n-butylamine	<0.040	0.040	0.029	mg/kg	40	10/28/14	8270C		MS
4-Chloro-3-methylphenol	<0.040	0.040	0.034	mg/kg	40	10/28/14	8270C		MS
Safrole	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2-Methylnaphthalene	<0.040	0.040	0.034	mg/kg	40	10/28/14	8270C		MS
1,2,4,5-Tetrachlorobenzene	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS
Caprolactam	<0.200	0.200		mg/kg	40	10/28/14	8270C		MS
Hexachlorocyclopentadiene	<0.040	0.040	0.032	mg/kg	40	10/28/14	8270C		MS
2,4,6-Trichlorophenol	<0.040	0.040	0.036	mg/kg	40	10/28/14	8270C		MS
2,4,5-Trichlorophenol	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
Isosafrole	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2-Chloronaphthalene	<0.040	0.040	0.039	mg/kg	40	10/28/14	8270C		MS
2-Nitroaniline	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS
Dimethylphthalate	<0.100	0.100	0.030	mg/kg	40	10/28/14	8270C		MS
Acenaphthylene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2,6-Dinitrotoluene	<0.040	0.040	0.029	mg/kg	40	10/28/14	8270C		MS
3-Nitroaniline	<0.040	0.040	0.037	mg/kg	40	10/28/14	8270C		MS
Acenaphthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2,4-Dinitrophenol*	<0.040	0.040	0.017	mg/kg	40	10/28/14	8270C		MS
Dibenzofuran	<0.040	0.040	0.022	mg/kg	40	10/28/14	8270C		MS
4-Nitrophenol	<0.040	0.040	0.032	mg/kg	40	10/28/14	8270C		MS
Pentachlorobenzene	<0.040	0.040	0.022	mg/kg	40	10/28/14	8270C		MS
2,4-Dinitrotoluene	<0.040	0.040	0.018	mg/kg	40	10/28/14	8270C		MS
2-Naphthylamine	<0.040	0.040	0.020	mg/kg	40	10/28/14	8270C		MS
1-Naphthylamine	<0.040	0.040	0.030	mg/kg	40	10/28/14	8270C		MS
2,3,4,6-Tetrachlorophenol	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS
Fluorene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Diethylphthalate	<0.040	0.040	0.026	mg/kg	40	10/28/14	8270C		MS
4-Chlorophenyl-phenyl ether	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
5-Nitro-o-toluidine	<0.040	0.040	0.037	mg/kg	40	10/28/14	8270C		MS
4-Nitroaniline	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS
4,6-Dinitro-2-methylphenol	<0.040	0.040	0.014	mg/kg	40	10/28/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

#### Semivolatile Organic Compounds by GCMS

Diphenylamine	<0.040	0.040	0.036	mg/kg	40	10/28/14	8270C		MS
Azobenzene	<0.040	0.040	0.039	mg/kg	40	10/28/14	8270C		MS
1,3,5-Trinitrobenzene	<0.040	0.040	0.019	mg/kg	40	10/28/14	8270C		MS
4-Bromophenyl-phenyl ether	<0.200	0.200	0.060	mg/kg	40	10/28/14	8270C		MS
Phenacetin	<0.040	0.040	0.019	mg/kg	40	10/28/14	8270C		MS
Diallate	<0.200	0.200	0.049	mg/kg	40	10/28/14	8270C		MS
Hexachlorobenzene	<0.200	0.200	0.042	mg/kg	40	10/28/14	8270C		MS
4-Aminobiphenyl	<0.040	0.040	0.039	mg/kg	40	10/28/14	8270C		MS
Pentachlorophenol	<0.040	0.040	0.029	mg/kg	40	10/28/14	8270C		MS
Pentachloronitrobenzene	<0.040	0.040	0.025	mg/kg	40	10/28/14	8270C		MS
Pronamide	<0.040	0.040	0.028	mg/kg	40	10/28/14	8270C		MS
Phenanthrene	<0.080	0.080	0.002	mg/kg	40	10/28/14	8270C		MS
Anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Dinoseb	<0.200	0.200	0.019	mg/kg	40	10/28/14	8270C		MS
Carbazole	<0.040	0.040	0.004	mg/kg	40	10/28/14	8270C		MS
Di-n-butylphthalate	<0.120	0.120	0.012	mg/kg	40	10/28/14	8270C		MS
Isodrin	<0.040	0.040	0.017	mg/kg	40	10/28/14	8270C		MS
Fluoranthene	<0.080	0.080	0.003	mg/kg	40	10/28/14	8270C		MS
Benzidine	<0.200	0.200	0.021	mg/kg	40	10/28/14	8270C		MS
Pyrene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Dimethylaminoazobenzene	<0.040	0.040	0.021	mg/kg	40	10/28/14	8270C		MS
Chlorobenzilate	<0.040	0.040	0.027	mg/kg	40	10/28/14	8270C		MS
Butylbenzylphthalate	<0.080	0.080	0.013	mg/kg	40	10/28/14	8270C		MS
Benzo[a]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
3,3'-Dichlorobenzidine	<0.200	0.200	0.068	mg/kg	40	10/28/14	8270C		MS
Chrysene	<0.040	0.040	0.005	mg/kg	40	10/28/14	8270C		MS
bis(2-Ethylhexyl)phthalate	<0.400	0.400	0.029	mg/kg	40	10/28/14	8270C		MS
Di-n-octylphthalate	<0.200	0.200	0.111	mg/kg	40	10/28/14	8270C		MS
Benzo[b]fluoranthene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Benzo[k]fluoranthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[a]pyrene	<0.008	0.008	0.002	mg/kg	40	10/28/14	8270C		MS
3-Methylcholanthrene	<0.040	0.040	0.031	mg/kg	40	10/28/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Indeno[1,2,3-cd]pyrene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
Dibenz[a,h]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[g,h,i]perylene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
bis(Chloromethyl)ether	<0.008	0.008		mg/kg	40	10/28/14	8270C		MS
Quinoline	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
N-Nitrosodiphenylamine	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
Nonylphenol	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
1,2-Diphenylhydrazine	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
Surrogate: 2-Fluorophenol			83.8 %	21-100		10/28/14	8270C		MS
Surrogate: Phenol-d5			76.3 %	10-94		10/28/14	8270C		MS
Surrogate: Nitrobenzene-d5			93.4 %	35-114		10/28/14	8270C		MS
Surrogate: 2-Fluorobiphenyl			79.5 %	43-116		10/28/14	8270C		MS
Surrogate: 2,4,6-Tribromophenol			91.9 %	10-123		10/28/14	8270C		MS
Surrogate: Terphenyl-d14			86.1 %	33-141		10/28/14	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	85.4			%	1	10/21/14	EPA160.3		ABP
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Soluble (DI Water Extraction)

Chloride	<40.0	40.0	20.0	mg/kg dry	4	10/23/14	4500-Cl- C		ABP
Conductivity	152	10.0		uS/cm	1	10/20/14	2510 B		MJV

Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	10/23/14	8015B		ms
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	10/23/14	8015B		ms
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	10/23/14	8015B		ms

Surrogate: 1-Chlorooctane	99.0 %	47.2-157	10/23/14	8015B	ms
Surrogate: 1-Chlorooctadecane	151 %	52.1-176	10/23/14	8015B	ms

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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www.GreenAnalytical.com

Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

#### VOLATILES BY GC/MS

Dichlorodifluoromethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Chloromethane*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Vinyl chloride*	<0.050	0.050	0.020	mg/kg	50	10/27/14	8260B		MS
Bromomethane*	<0.050	0.050	0.034	mg/kg	50	10/27/14	8260B		MS
Chloroethane*	<0.050	0.050	0.031	mg/kg	50	10/27/14	8260B		MS
Trichlorofluoromethane*	<0.050	0.050	0.028	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloroethene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Carbon disulfide*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Iodomethane	<0.050	0.050	0.015	mg/kg	50	10/27/14	8260B		MS
Acrolein*	<2.50	2.50	0.082	mg/kg	50	10/27/14	8260B		MS
Methylene chloride*	0.103	0.100	0.017	mg/kg	50	10/27/14	8260B		MS
Acetone*	<0.500	0.500	0.068	mg/kg	50	10/27/14	8260B		MS
trans-1,2-Dichloroethene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Methyl t-Butyl Ether*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloroethane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Acrylonitrile*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Vinyl acetate*	<0.250	0.250	0.012	mg/kg	50	10/27/14	8260B		MS
cis-1,2-Dichloroethene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
2,2-Dichloropropane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Bromochloromethane*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Chloroform*	<0.050	0.050	0.021	mg/kg	50	10/27/14	8260B		MS
Carbon tetrachloride*	<0.050	0.050	0.006	mg/kg	50	10/27/14	8260B		MS
1,1,1-Trichloroethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,1-Dichloropropene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
2-Butanone*	<0.250	0.250	0.034	mg/kg	50	10/27/14	8260B		MS
Benzene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dichloroethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Trichloroethene*	<0.050	0.050	0.017	mg/kg	50	10/27/14	8260B		MS
Dibromomethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,2-Dichloropropane*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Bromodichloromethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
cis-1,3-Dichloropropene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

#### VOLATILES BY GC/MS

Toluene*	<0.050	0.050	0.015	mg/kg	50	10/27/14	8260B		MS
4-Methyl-2-pentanone*	<0.250	0.250	0.014	mg/kg	50	10/27/14	8260B		MS
Tetrachloroethene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
trans-1,3-Dichloropropene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,1,2-Trichloroethane*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Dibromochloromethane*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,3-Dichloropropane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dibromoethane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
2-Hexanone*	<0.250	0.250	0.019	mg/kg	50	10/27/14	8260B		MS
Chlorobenzene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
Ethylbenzene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
m+p - Xylene*	<0.100	0.100	0.028	mg/kg	50	10/27/14	8260B		MS
o-Xylene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Total Xylenes*	<0.150	0.150	0.042	mg/kg	50	10/27/14	8260B		MS
Bromoform*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Styrene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
Isopropylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
Bromobenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
n-Propylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
2-Chlorotoluene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2,3-trichloropropane*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,3,5-Trimethylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
trans-1,4-Dichloro-2-butene	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
4-Chlorotoluene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
tert-Butylbenzene*	<0.050	0.050	0.012	mg/kg	50	10/27/14	8260B		MS
1,2,4-Trimethylbenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
sec-Butylbenzene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
p-Isopropyltoluene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
1,3-Dichlorobenzene*	<0.050	0.050	0.016	mg/kg	50	10/27/14	8260B		MS
1,4 Dichlorobenzene*	<0.100	0.100	0.015	mg/kg	50	10/27/14	8260B		MS

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Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

n-Butylbenzene*	<0.050	0.050	0.013	mg/kg	50	10/27/14	8260B		MS
1,2-Dichlorobenzene*	<0.050	0.050	0.010	mg/kg	50	10/27/14	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.050	0.050	0.029	mg/kg	50	10/27/14	8260B		MS
Hexachlorobutadiene*	<0.050	0.050	0.014	mg/kg	50	10/27/14	8260B		MS
1,2,4-Trichlorobenzene*	<0.050	0.050	0.011	mg/kg	50	10/27/14	8260B		MS
Naphthalene*	<0.050	0.050	0.009	mg/kg	50	10/27/14	8260B		MS
1,2,3-Trichlorobenzene*	<0.050	0.050	0.008	mg/kg	50	10/27/14	8260B		MS
2-Chloroethylvinyl ether	<0.050	0.050		mg/kg	50	10/27/14	8260B		MS
1,4-Dioxane	<2.50	2.50		mg/kg	50	10/27/14	8260B		MS
Surrogate: Dibromofluoromethane			96.3 %	80.8-114		10/27/14	8260B		MS
Surrogate: Toluene-d8			102 %	83.7-121		10/27/14	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.4 %	57.9-154		10/27/14	8260B		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

#### Semivolatile Organic Compounds by GCMS

Pyridine	<0.200	0.200	0.046	mg/kg	40	10/29/14	8270C		MS
N-Nitrosodimethylamine	<0.200	0.200	0.048	mg/kg	40	10/29/14	8270C		MS
2-Picoline	<0.200	0.200	0.048	mg/kg	40	10/29/14	8270C		MS
Methyl methanesulfonate	<0.200	0.200	0.067	mg/kg	40	10/29/14	8270C		MS
Ethyl methanesulfonate	<0.200	0.200	0.077	mg/kg	40	10/29/14	8270C		MS
Pentachloroethane	<0.200	0.200	0.052	mg/kg	40	10/29/14	8270C		MS
Aniline	<0.200	0.200	0.058	mg/kg	40	10/29/14	8270C		MS
Phenol	<0.200	0.200	0.066	mg/kg	40	10/29/14	8270C		MS
2-Chlorophenol	<0.200	0.200	0.069	mg/kg	40	10/29/14	8270C		MS
bis(2-Chloroethyl)ether	<0.200	0.200	0.050	mg/kg	40	10/29/14	8270C		MS
1,4-Dichlorobenzene	<0.600	0.600	0.059	mg/kg	40	10/29/14	8270C		MS
1,3-Dichlorobenzene	<0.040	0.040	0.011	mg/kg	40	10/29/14	8270C		MS
Benzyl alcohol	<0.040	0.040	0.025	mg/kg	40	10/29/14	8270C		MS
1,2-Dichlorobenzene	<0.040	0.040	0.014	mg/kg	40	10/29/14	8270C		MS
bis(2-Chloroisopropyl)ether	<0.040	0.040	0.020	mg/kg	40	10/29/14	8270C		MS
Acetophenone	<0.040	0.040	0.026	mg/kg	40	10/29/14	8270C		MS
2-Methylphenol	<0.040	0.040	0.028	mg/kg	40	10/29/14	8270C		MS
4-Methylphenol	<0.040	0.040	0.035	mg/kg	40	10/29/14	8270C		MS
Hexachloroethane	<0.040	0.040	0.021	mg/kg	40	10/29/14	8270C		MS
N-Nitrosodi-n-propylamine	<0.040	0.040	0.025	mg/kg	40	10/29/14	8270C		MS
Nitrobenzene	<0.040	0.040	0.037	mg/kg	40	10/29/14	8270C		MS
N-Nitrosopiperidine	<0.040	0.040	0.040	mg/kg	40	10/29/14	8270C		MS
Isophorone	<0.040	0.040	0.021	mg/kg	40	10/29/14	8270C		MS
2-Nitrophenol	<0.040	0.040	0.030	mg/kg	40	10/29/14	8270C		MS
2,4-Dimethylphenol	<0.200	0.200	0.042	mg/kg	40	10/29/14	8270C		MS
bis(2-Chloroethoxy)methane	<0.040	0.040	0.028	mg/kg	40	10/29/14	8270C		MS
2,6-Dichlorophenol	<0.040	0.040	0.022	mg/kg	40	10/29/14	8270C		MS
1,2,4-Trichlorobenzene	<0.200	0.200	0.040	mg/kg	40	10/29/14	8270C		MS
Naphthalene	<0.040	0.040	0.002	mg/kg	40	10/29/14	8270C		MS
2,4-Dichlorophenol	<0.040	0.040	0.040	mg/kg	40	10/29/14	8270C		MS
4-Chloroaniline	<0.040	0.040	0.032	mg/kg	40	10/29/14	8270C		MS
Hexachloropropene	<0.040	0.040	0.021	mg/kg	40	10/29/14	8270C		MS

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Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Hexachlorobutadiene	<0.040	0.040	0.014	mg/kg	40	10/29/14	8270C		MS
N-Nitroso-di-n-butylamine	<0.040	0.040	0.029	mg/kg	40	10/29/14	8270C		MS
4-Chloro-3-methylphenol	<0.040	0.040	0.034	mg/kg	40	10/29/14	8270C		MS
Safrole	<0.040	0.040	0.030	mg/kg	40	10/29/14	8270C		MS
2-Methylnaphthalene	<0.040	0.040	0.034	mg/kg	40	10/29/14	8270C		MS
1,2,4,5-Tetrachlorobenzene	<0.040	0.040	0.031	mg/kg	40	10/29/14	8270C		MS
Caprolactam	<0.200	0.200		mg/kg	40	10/29/14	8270C		MS
Hexachlorocyclopentadiene	<0.040	0.040	0.032	mg/kg	40	10/29/14	8270C		MS
2,4,6-Trichlorophenol	<0.040	0.040	0.036	mg/kg	40	10/29/14	8270C		MS
2,4,5-Trichlorophenol	<0.040	0.040	0.030	mg/kg	40	10/29/14	8270C		MS
Isosafrole	<0.040	0.040	0.030	mg/kg	40	10/29/14	8270C		MS
2-Chloronaphthalene	<0.040	0.040	0.039	mg/kg	40	10/29/14	8270C		MS
2-Nitroaniline	<0.040	0.040	0.031	mg/kg	40	10/29/14	8270C		MS
Dimethylphthalate	<0.100	0.100	0.030	mg/kg	40	10/29/14	8270C		MS
Acenaphthylene	<0.040	0.040	0.002	mg/kg	40	10/29/14	8270C		MS
2,6-Dinitrotoluene	<0.040	0.040	0.029	mg/kg	40	10/29/14	8270C		MS
3-Nitroaniline	<0.040	0.040	0.037	mg/kg	40	10/29/14	8270C		MS
Acenaphthene	<0.040	0.040	0.002	mg/kg	40	10/29/14	8270C		MS
2,4-Dinitrophenol*	<0.040	0.040	0.017	mg/kg	40	10/29/14	8270C		MS
Dibenzofuran	<0.040	0.040	0.022	mg/kg	40	10/29/14	8270C		MS
4-Nitrophenol	<0.040	0.040	0.032	mg/kg	40	10/29/14	8270C		MS
Pentachlorobenzene	<0.040	0.040	0.022	mg/kg	40	10/29/14	8270C		MS
2,4-Dinitrotoluene	<0.040	0.040	0.018	mg/kg	40	10/29/14	8270C		MS
2-Naphthylamine	<0.040	0.040	0.020	mg/kg	40	10/29/14	8270C		MS
1-Naphthylamine	<0.040	0.040	0.030	mg/kg	40	10/29/14	8270C		MS
2,3,4,6-Tetrachlorophenol	<0.040	0.040	0.014	mg/kg	40	10/29/14	8270C		MS
Fluorene	<0.040	0.040	0.002	mg/kg	40	10/29/14	8270C		MS
Diethylphthalate	<0.040	0.040	0.026	mg/kg	40	10/29/14	8270C		MS
4-Chlorophenyl-phenyl ether	<0.040	0.040	0.025	mg/kg	40	10/29/14	8270C		MS
5-Nitro-o-toluidine	<0.040	0.040	0.037	mg/kg	40	10/29/14	8270C		MS
4-Nitroaniline	<0.040	0.040	0.031	mg/kg	40	10/29/14	8270C		MS
4,6-Dinitro-2-methylphenol	<0.040	0.040	0.014	mg/kg	40	10/29/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Diphenylamine	<0.040	0.040	0.036	mg/kg	40	10/29/14	8270C		MS
Azobenzene	<0.040	0.040	0.039	mg/kg	40	10/29/14	8270C		MS
1,3,5-Trinitrobenzene	<0.040	0.040	0.019	mg/kg	40	10/29/14	8270C		MS
4-Bromophenyl-phenyl ether	<0.200	0.200	0.060	mg/kg	40	10/29/14	8270C		MS
Phenacetin	<0.040	0.040	0.019	mg/kg	40	10/29/14	8270C		MS
Diallate	<0.200	0.200	0.049	mg/kg	40	10/29/14	8270C		MS
Hexachlorobenzene	<0.200	0.200	0.042	mg/kg	40	10/29/14	8270C		MS
4-Aminobiphenyl	<0.040	0.040	0.039	mg/kg	40	10/29/14	8270C		MS
Pentachlorophenol	<0.040	0.040	0.029	mg/kg	40	10/29/14	8270C		MS
Pentachloronitrobenzene	<0.040	0.040	0.025	mg/kg	40	10/29/14	8270C		MS
Pronamide	<0.040	0.040	0.028	mg/kg	40	10/29/14	8270C		MS
Phenanthrene	<0.080	0.080	0.002	mg/kg	40	10/29/14	8270C		MS
Anthracene	<0.040	0.040	0.002	mg/kg	40	10/29/14	8270C		MS
Dinoseb	<0.200	0.200	0.019	mg/kg	40	10/29/14	8270C		MS
Carbazole	<0.040	0.040	0.004	mg/kg	40	10/29/14	8270C		MS
Di-n-butylphthalate	<0.120	0.120	0.012	mg/kg	40	10/29/14	8270C		MS
Isodrin	<0.040	0.040	0.017	mg/kg	40	10/29/14	8270C		MS
Fluoranthene	<0.080	0.080	0.003	mg/kg	40	10/29/14	8270C		MS
Benzidine	<0.200	0.200	0.021	mg/kg	40	10/29/14	8270C		MS
Pyrene	<0.040	0.040	0.003	mg/kg	40	10/29/14	8270C		MS
Dimethylaminoazobenzene	<0.040	0.040	0.021	mg/kg	40	10/29/14	8270C		MS
Chlorobenzilate	<0.040	0.040	0.027	mg/kg	40	10/29/14	8270C		MS
Butylbenzylphthalate	<0.080	0.080	0.013	mg/kg	40	10/29/14	8270C		MS
Benzo[a]anthracene	<0.040	0.040	0.002	mg/kg	40	10/29/14	8270C		MS
3,3'-Dichlorobenzidine	<0.200	0.200	0.068	mg/kg	40	10/29/14	8270C		MS
Chrysene	<0.040	0.040	0.005	mg/kg	40	10/29/14	8270C		MS
bis(2-Ethylhexyl)phthalate	<0.400	0.400	0.029	mg/kg	40	10/29/14	8270C		MS
Di-n-octylphthalate	<0.200	0.200	0.111	mg/kg	40	10/29/14	8270C		MS
Benzo[b]fluoranthene	<0.040	0.040	0.003	mg/kg	40	10/29/14	8270C		MS
Benzo[k]fluoranthene	<0.040	0.040	0.002	mg/kg	40	10/29/14	8270C		MS
Benzo[a]pyrene	<0.008	0.008	0.002	mg/kg	40	10/29/14	8270C		MS
3-Methylcholanthrene	<0.040	0.040	0.031	mg/kg	40	10/29/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

003

1410192-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Indeno[1,2,3-cd]pyrene	<0.040	0.040	0.001	mg/kg	40	10/29/14	8270C		MS
Dibenz[a,h]anthracene	<0.040	0.040	0.002	mg/kg	40	10/29/14	8270C		MS
Benzo[g,h,i]perylene	<0.040	0.040	0.001	mg/kg	40	10/29/14	8270C		MS
bis(Chloromethyl)ether	<0.008	0.008		mg/kg	40	10/29/14	8270C		MS
Quinoline	<0.040	0.040		mg/kg	40	10/29/14	8270C		MS
N-Nitrosodiphenylamine	<0.040	0.040		mg/kg	40	10/29/14	8270C		MS
Nonylphenol	<0.040	0.040		mg/kg	40	10/29/14	8270C		MS
1,2-Diphenylhydrazine	<0.040	0.040		mg/kg	40	10/29/14	8270C		MS
Surrogate: 2-Fluorophenol			76.8 %	21-100		10/29/14	8270C		MS
Surrogate: Phenol-d5			71.6 %	10-94		10/29/14	8270C		MS
Surrogate: Nitrobenzene-d5			91.9 %	35-114		10/29/14	8270C		MS
Surrogate: 2-Fluorobiphenyl			74.1 %	43-116		10/29/14	8270C		MS
Surrogate: 2,4,6-Tribromophenol			92.2 %	10-123		10/29/14	8270C		MS
Surrogate: Terphenyl-d14			79.5 %	33-141		10/29/14	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Soluble (DI Water Extraction) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B410186 - General Prep - Wet Chem

##### Duplicate (B410186-DUP1)

Source: 1410161-01

Prepared &amp; Analyzed: 10/20/14

Conductivity	14300	10.0	uS/cm		14000			2.34	20	
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##### Reference (B410186-SRM1)

Prepared &amp; Analyzed: 10/20/14

Conductivity	406		uS/cm	406		100	90-110			
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#### Batch B410237 - General Prep - Wet Chem

##### Blank (B410237-BLK1)

Prepared &amp; Analyzed: 10/23/14

Chloride	ND	10.0	mg/kg wet							
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##### LCS (B410237-BS1)

Prepared &amp; Analyzed: 10/23/14

Chloride	101	10.0	mg/kg wet	100		101	85-115			
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##### LCS Dup (B410237-BSD1)

Prepared &amp; Analyzed: 10/23/14

Chloride	101	10.0	mg/kg wet	100		101	85-115	0.00	20	
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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4102211 - General Prep - Organics

##### Blank (4102211-BLK1)

Prepared: 10/22/14 Analyzed: 10/23/14

Surrogate: 1-Chlorooctadecane	69.4		mg/kg	50.0		139	52.1-176			
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		95.9	47.2-157			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

##### LCS (4102211-BS1)

Prepared: 10/22/14 Analyzed: 10/23/14

Surrogate: 1-Chlorooctadecane	65.3		mg/kg	50.0		131	52.1-176			
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.3	47.2-157			
DRO >C10-C28	195	10.0	mg/kg	200		97.5	81.3-118			
GRO C6-C10	179	10.0	mg/kg	200		89.6	72.5-115			
Total TPH C6-C28	374	10.0	mg/kg	400		93.5	80-113			

##### LCS Dup (4102211-BS1)

Prepared: 10/22/14 Analyzed: 10/23/14

Surrogate: 1-Chlorooctadecane	67.0		mg/kg	50.0		134	52.1-176			
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	47.2-157			
DRO >C10-C28	209	10.0	mg/kg	200		105	81.3-118	7.17	15.3	
GRO C6-C10	187	10.0	mg/kg	200		93.5	72.5-115	4.26	10.1	
Total TPH C6-C28	396	10.0	mg/kg	400		99.1	80-113	5.78	12.1	

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4102703 - Volatiles

##### Blank (4102703-BLK1)

Prepared & Analyzed: 10/27/14

1,1,1,2-Tetrachloroethane	ND	0.050	mg/kg							
1,1,1-Trichloroethane	ND	0.050	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.050	mg/kg							
1,1,2-Trichloroethane	ND	0.050	mg/kg							
1,1-Dichloroethane	ND	0.050	mg/kg							
1,1-Dichloroethene	ND	0.050	mg/kg							
1,1-Dichloropropene	ND	0.050	mg/kg							
1,2,3-Trichlorobenzene	ND	0.050	mg/kg							
1,2,4-Trichlorobenzene	ND	0.050	mg/kg							
1,2,4-Trimethylbenzene	ND	0.050	mg/kg							
1,2-Dibromo-3-chloropropane	ND	0.050	mg/kg							
1,2-Dibromoethane	ND	0.050	mg/kg							
1,2-Dichlorobenzene	ND	0.050	mg/kg							
1,2-Dichloroethane	ND	0.050	mg/kg							
1,2-Dichloropropane	ND	0.050	mg/kg							
1,3,5-Trimethylbenzene	ND	0.050	mg/kg							
1,3-Dichlorobenzene	ND	0.050	mg/kg							
1,3-Dichloropropane	ND	0.050	mg/kg							
1,4 Dichlorobenzene	0.060	0.050	mg/kg							B
1,4-Dioxane	ND	2.50	mg/kg							
1,2,3-trichloropropane	ND	0.050	mg/kg							
2,2-Dichloropropane	ND	0.050	mg/kg							
2-Butanone	ND	0.250	mg/kg							
2-Chloroethylvinyl ether	ND	0.050	mg/kg							
2-Chlorotoluene	ND	0.050	mg/kg							
2-Hexanone	ND	0.250	mg/kg							
Surrogate: 4-Bromofluorobenzene	0.482		mg/kg	0.500		96.4	57.9-154			
4-Chlorotoluene	ND	0.050	mg/kg							
4-Methyl-2-pentanone	ND	0.250	mg/kg							
Acetone	ND	0.250	mg/kg							
Acrolein	ND	2.50	mg/kg							
Acrylonitrile	ND	0.050	mg/kg							
Benzene	ND	0.050	mg/kg							
Bromobenzene	ND	0.050	mg/kg							
Bromochloromethane	ND	0.050	mg/kg							
Bromodichloromethane	ND	0.050	mg/kg							
Bromoform	ND	0.050	mg/kg							
Bromomethane	ND	0.050	mg/kg							
Carbon disulfide	ND	0.050	mg/kg							

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4102703 - Volatiles

##### Blank (4102703-BLK1)

Prepared & Analyzed: 10/27/14

Carbon tetrachloride	ND	0.050	mg/kg							
Chlorobenzene	ND	0.050	mg/kg							
Chloroethane	ND	0.050	mg/kg							
Chloroform	ND	0.050	mg/kg							
Chloromethane	ND	0.050	mg/kg							
cis-1,2-Dichloroethene	ND	0.050	mg/kg							
cis-1,3-Dichloropropene	ND	0.050	mg/kg							
Dibromochloromethane	ND	0.050	mg/kg							
Surrogate: Dibromofluoromethane	0.471		mg/kg	0.500		94.3	80.8-114			
Dibromomethane	ND	0.050	mg/kg							
Dichlorodifluoromethane	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Hexachlorobutadiene	ND	0.050	mg/kg							
Iodomethane	ND	0.050	mg/kg							
Isopropylbenzene	ND	0.050	mg/kg							
m+p - Xylene	ND	0.100	mg/kg							
Methyl t-Butyl Ether	ND	0.050	mg/kg							
Methylene chloride	ND	0.050	mg/kg							
Naphthalene	ND	0.050	mg/kg							
n-Butylbenzene	ND	0.050	mg/kg							
n-Propylbenzene	ND	0.050	mg/kg							
o-Xylene	ND	0.050	mg/kg							
p-Isopropyltoluene	ND	0.050	mg/kg							
sec-Butylbenzene	ND	0.050	mg/kg							
Styrene	ND	0.050	mg/kg							
tert-Butylbenzene	ND	0.050	mg/kg							
Tetrachloroethene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Surrogate: Toluene-d8	0.493		mg/kg	0.500		98.7	83.7-121			
Total Xylenes	ND	0.150	mg/kg							
trans-1,2-Dichloroethene	ND	0.050	mg/kg							
trans-1,3-Dichloropropene	ND	0.050	mg/kg							
trans-1,4-Dichloro-2-butene	ND	0.050	mg/kg							
Trichloroethene	ND	0.050	mg/kg							
Trichlorofluoromethane	ND	0.050	mg/kg							
Vinyl acetate	ND	0.250	mg/kg							
Vinyl chloride	ND	0.050	mg/kg							

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4102703 - Volatiles

##### LCS (4102703-BS1)

Prepared &amp; Analyzed: 10/27/14

1,1,1,2-Tetrachloroethane	1.68	0.050	mg/kg	2.00		83.9	54.4-128			
1,1,1-Trichloroethane	1.82	0.050	mg/kg	2.00		90.8	63.5-152			
1,1,2,2-Tetrachloroethane	1.62	0.050	mg/kg	2.00		80.9	42.4-125			
1,1,2-Trichloroethane	1.70	0.050	mg/kg	2.00		85.0	57.8-129			
1,1-Dichloroethane	1.84	0.050	mg/kg	2.00		92.0	54.8-185			
1,1-Dichloroethene	2.05	0.050	mg/kg	2.00		102	49.8-244			
1,1-Dichloropropene	1.79	0.050	mg/kg	2.00		89.5	56.4-150			
1,2,3-Trichlorobenzene	1.81	0.050	mg/kg	2.00		90.4	22.6-146			
1,2,4-Trichlorobenzene	1.90	0.050	mg/kg	2.00		95.0	27.4-151			
1,2,4-Trimethylbenzene	1.93	0.050	mg/kg	2.00		96.3	40.1-147			
1,2-Dibromo-3-chloropropane	1.55	0.050	mg/kg	2.00		77.7	33.2-107			
1,2-Dibromoethane	1.67	0.050	mg/kg	2.00		83.4	67.2-120			
1,2-Dichlorobenzene	1.77	0.050	mg/kg	2.00		88.3	46.1-127			
1,2-Dichloroethane	1.69	0.050	mg/kg	2.00		84.7	41.8-156			
1,2-Dichloropropane	1.68	0.050	mg/kg	2.00		83.8	49.7-155			
1,3,5-Trimethylbenzene	1.87	0.050	mg/kg	2.00		93.4	37.4-151			
1,3-Dichlorobenzene	1.84	0.050	mg/kg	2.00		92.0	48.5-133			
1,3-Dichloropropane	1.64	0.050	mg/kg	2.00		81.9	54.5-133			
1,4 Dichlorobenzene	1.84	0.050	mg/kg	2.00		91.9	47.5-149			
1,4-Dioxane	ND	2.50	mg/kg				60-140			
1,2,3-trichloropropane	1.65	0.050	mg/kg	2.00		82.7	57.9-124			
2,2-Dichloropropane	1.81	0.050	mg/kg	2.00		90.7	63.7-149			
2-Butanone	0.553	0.250	mg/kg				53.2-122			
2-Chloroethylvinyl ether	ND	0.050	mg/kg				60-140			
2-Chlorotoluene	1.82	0.050	mg/kg	2.00		91.1	41.6-140			
2-Hexanone	ND	0.250	mg/kg				33.9-148			

Surrogate: 4-Bromofluorobenzene	0.501		mg/kg	0.500		100	57.9-154			
4-Chlorotoluene	1.79	0.050	mg/kg	2.00		89.3	40.8-139			
4-Methyl-2-pentanone	0.507	0.250	mg/kg				39.9-150			
Acetone	0.194	0.250	mg/kg				16.6-181			
Acrolein	ND	2.50	mg/kg				62-147			
Acrylonitrile	1.67	0.050	mg/kg				67-144			
Benzene	1.83	0.050	mg/kg	2.00		91.6	78.3-139			
Bromobenzene	1.78	0.050	mg/kg	2.00		89.0	67.6-122			
Bromochloromethane	1.68	0.050	mg/kg	2.00		84.1	67.5-147			
Bromodichloromethane	1.88	0.050	mg/kg	2.00		93.8	54.9-144			
Bromoform	1.81	0.050	mg/kg	2.00		90.7	37-173			
Bromomethane	1.78	0.050	mg/kg	2.00		88.9	37.4-183			
Carbon disulfide	1.97	0.050	mg/kg	2.00		98.5	55.6-146			

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4102703 - Volatiles

##### LCS (4102703-BS1)

Prepared & Analyzed: 10/27/14

Carbon tetrachloride	1.88	0.050	mg/kg	2.00		93.9	63.1-149			
Chlorobenzene	1.77	0.050	mg/kg	2.00		88.4	68.4-122			
Chloroethane	2.67	0.050	mg/kg	2.00		134	19.5-295			
Chloroform	1.81	0.050	mg/kg	2.00		90.3	58.3-148			
Chloromethane	1.59	0.050	mg/kg	2.00		79.5	26.6-166			
cis-1,2-Dichloroethene	1.81	0.050	mg/kg	2.00		90.6	66.2-139			
cis-1,3-Dichloropropene	1.71	0.050	mg/kg	2.00		85.7	54.4-121			
Dibromochloromethane	1.86	0.050	mg/kg	2.00		93.2	62.4-133			

<i>Surrogate: Dibromofluoromethane</i>	<i>0.500</i>		mg/kg	<i>0.500</i>		<i>100</i>	<i>80.8-114</i>			
Dibromomethane	1.69	0.050	mg/kg	2.00		84.7	63.7-146			
Dichlorodifluoromethane	1.28	0.050	mg/kg	2.00		63.9	22-186			
Ethylbenzene	1.72	0.050	mg/kg	2.00		86.2	71.7-131			
Hexachlorobutadiene	2.14	0.050	mg/kg	2.00		107	20.3-170			
Iodomethane	1.81	0.050	mg/kg	2.00		90.3	70.8-132			
Isopropylbenzene	2.00	0.050	mg/kg	2.00		99.9	52.3-143			
m+p - Xylene	3.61	0.100	mg/kg	4.00		90.2	71-139			
Methyl t-Butyl Ether	ND	0.050	mg/kg				47.8-146			
Methylene chloride	1.74	0.050	mg/kg	2.00		86.8	39.3-197			
Naphthalene	1.78	0.050	mg/kg	2.00		88.8	28.2-126			
n-Butylbenzene	1.96	0.050	mg/kg	2.00		97.8	32.1-165			
n-Propylbenzene	1.96	0.050	mg/kg	2.00		98.0	35.1-160			
o-Xylene	1.83	0.050	mg/kg	2.00		91.6	69.8-132			
p-Isopropyltoluene	1.96	0.050	mg/kg	2.00		97.8	21.4-184			
sec-Butylbenzene	1.93	0.050	mg/kg	2.00		96.4	18.5-176			
Styrene	1.74	0.050	mg/kg	2.00		86.8	61-138			
tert-Butylbenzene	1.86	0.050	mg/kg	2.00		93.2	37-146			
Tetrachloroethene	1.88	0.050	mg/kg	2.00		93.9	66-153			
Toluene	1.71	0.050	mg/kg	2.00		85.7	75.1-137			

<i>Surrogate: Toluene-d8</i>	<i>0.495</i>		mg/kg	<i>0.500</i>		<i>99.0</i>	<i>83.7-121</i>			
Total Xylenes	5.44	0.150	mg/kg	6.00		90.7	70.9-136			
trans-1,2-Dichloroethene	1.90	0.050	mg/kg	2.00		94.8	61.6-163			
trans-1,3-Dichloropropene	1.83	0.050	mg/kg	2.00		91.5	53.5-143			
trans-1,4-Dichloro-2-butene	1.73	0.050	mg/kg	2.00		86.6	23.1-264			
Trichloroethene	1.77	0.050	mg/kg	2.00		88.4	60.7-142			
Trichlorofluoromethane	2.51	0.050	mg/kg	2.00		126	2.54-271			
Vinyl acetate	ND	0.250	mg/kg				0-198			
Vinyl chloride	1.47	0.050	mg/kg	2.00		73.6	27.3-182			

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Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4102703 - Volatiles

##### LCS Dup (4102703-BSD1)

Prepared & Analyzed: 10/27/14

1,1,1,2-Tetrachloroethane	1.93	0.050	mg/kg	2.00		96.5	54.4-128	14.0	40.5	
1,1,1-Trichloroethane	2.09	0.050	mg/kg	2.00		104	63.5-152	13.9	33.8	
1,1,2,2-Tetrachloroethane	1.90	0.050	mg/kg	2.00		95.0	42.4-125	16.0	32.2	
1,1,2-Trichloroethane	1.89	0.050	mg/kg	2.00		94.7	57.8-129	10.8	38.9	
1,1-Dichloroethane	2.18	0.050	mg/kg	2.00		109	54.8-185	17.0	37.3	
1,1-Dichloroethene	2.39	0.050	mg/kg	2.00		119	49.8-244	15.2	29.8	
1,1-Dichloropropene	2.08	0.050	mg/kg	2.00		104	56.4-150	14.7	34.3	
1,2,3-Trichlorobenzene	2.12	0.050	mg/kg	2.00		106	22.6-146	15.8	47.2	
1,2,4-Trichlorobenzene	2.26	0.050	mg/kg	2.00		113	27.4-151	17.1	39.4	
1,2,4-Trimethylbenzene	2.23	0.050	mg/kg	2.00		112	40.1-147	14.7	38.9	
1,2-Dibromo-3-chloropropane	1.76	0.050	mg/kg	2.00		88.0	33.2-107	12.4	27	
1,2-Dibromoethane	1.87	0.050	mg/kg	2.00		93.7	67.2-120	11.7	34.4	
1,2-Dichlorobenzene	2.08	0.050	mg/kg	2.00		104	46.1-127	16.4	39.9	
1,2-Dichloroethane	1.95	0.050	mg/kg	2.00		97.3	41.8-156	13.9	34.1	
1,2-Dichloropropane	2.01	0.050	mg/kg	2.00		100	49.7-155	17.9	38.7	
1,3,5-Trimethylbenzene	2.20	0.050	mg/kg	2.00		110	37.4-151	16.3	41.9	
1,3-Dichlorobenzene	2.16	0.050	mg/kg	2.00		108	48.5-133	16.1	42.1	
1,3-Dichloropropane	1.91	0.050	mg/kg	2.00		95.4	54.5-133	15.2	41	
1,4-Dichlorobenzene	2.20	0.050	mg/kg	2.00		110	47.5-149	17.9	38.7	
1,4-Dioxane	ND	2.50	mg/kg				60-140		20	
1,2,3-trichloropropane	1.94	0.050	mg/kg	2.00		96.8	57.9-124	15.8	34.1	
2,2-Dichloropropane	2.03	0.050	mg/kg	2.00		101	63.7-149	11.1	30.6	
2-Butanone	0.646	0.250	mg/kg				53.2-122	15.5	33.9	
2-Chloroethylvinyl ether	ND	0.050	mg/kg				60-140		20	
2-Chlorotoluene	2.11	0.050	mg/kg	2.00		106	41.6-140	14.8	44.4	
2-Hexanone	ND	0.250	mg/kg				33.9-148		30.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.489</i>		mg/kg	<i>0.500</i>		<i>97.8</i>	<i>57.9-154</i>			
4-Chlorotoluene	2.10	0.050	mg/kg	2.00		105	40.8-139	16.1	44.5	
4-Methyl-2-pentanone	0.549	0.250	mg/kg				39.9-150	8.05	27.3	
Acetone	0.287	0.250	mg/kg				16.6-181	38.9	68.7	
Acrolein	ND	2.50	mg/kg				62-147		20	
Acrylonitrile	2.04	0.050	mg/kg				67-144	19.9	20	
Benzene	2.12	0.050	mg/kg	2.00		106	78.3-139	14.7	17.9	
Bromobenzene	2.08	0.050	mg/kg	2.00		104	67.6-122	15.6	36.9	
Bromochloromethane	1.94	0.050	mg/kg	2.00		96.8	67.5-147	14.1	35.9	
Bromodichloromethane	2.17	0.050	mg/kg	2.00		109	54.9-144	14.8	39.4	
Bromoform	2.01	0.050	mg/kg	2.00		100	37-173	9.98	48.8	
Bromomethane	1.96	0.050	mg/kg	2.00		98.2	37.4-183	9.87	18.8	
Carbon disulfide	2.29	0.050	mg/kg	2.00		114	55.6-146	14.9	36.9	

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*Debbie Zufelt*

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

**VOLATILES BY GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4102703 - Volatiles****LCS Dup (4102703-BSD1)**

Prepared &amp; Analyzed: 10/27/14

Carbon tetrachloride	2.14	0.050	mg/kg	2.00		107	63.1-149	13.0	33.1	
Chlorobenzene	2.06	0.050	mg/kg	2.00		103	68.4-122	15.3	37.9	
Chloroethane	2.98	0.050	mg/kg	2.00		149	19.5-295	10.8	31.2	
Chloroform	2.07	0.050	mg/kg	2.00		103	58.3-148	13.5	35	
Chloromethane	1.77	0.050	mg/kg	2.00		88.4	26.6-166	10.6	32.7	
cis-1,2-Dichloroethene	2.11	0.050	mg/kg	2.00		106	66.2-139	15.2	34.1	
cis-1,3-Dichloropropene	1.99	0.050	mg/kg	2.00		99.6	54.4-121	15.0	44.7	
Dibromochloromethane	2.12	0.050	mg/kg	2.00		106	62.4-133	12.9	46.3	
Surrogate: Dibromofluoromethane	0.502		mg/kg	0.500		100	80.8-114			
Dibromomethane	1.98	0.050	mg/kg	2.00		99.1	63.7-146	15.6	33.1	
Dichlorodifluoromethane	1.38	0.050	mg/kg	2.00		69.2	22-186	7.93	31.5	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	71.7-131	13.4	18.5	
Hexachlorobutadiene	2.47	0.050	mg/kg	2.00		124	20.3-170	14.2	62	
Iodomethane	2.08	0.050	mg/kg	2.00		104	70.8-132	14.2	34.9	
Isopropylbenzene	2.28	0.050	mg/kg	2.00		114	52.3-143	13.2	42.3	
m+p - Xylene	4.15	0.100	mg/kg	4.00		104	71-139	14.0	22.5	
Methyl t-Butyl Ether	ND	0.050	mg/kg				47.8-146		35.7	
Methylene chloride	2.11	0.050	mg/kg	2.00		105	39.3-197	19.3	37.6	
Naphthalene	2.08	0.050	mg/kg	2.00		104	28.2-126	15.6	35	
n-Butylbenzene	2.28	0.050	mg/kg	2.00		114	32.1-165	15.1	45.7	
n-Propylbenzene	2.29	0.050	mg/kg	2.00		115	35.1-160	15.6	42.9	
o-Xylene	2.10	0.050	mg/kg	2.00		105	69.8-132	13.8	18.8	
p-Isopropyltoluene	2.28	0.050	mg/kg	2.00		114	21.4-184	15.2	39.8	
sec-Butylbenzene	2.24	0.050	mg/kg	2.00		112	18.5-176	14.8	44.4	
Styrene	1.99	0.050	mg/kg	2.00		99.7	61-138	13.8	42.8	
tert-Butylbenzene	2.14	0.050	mg/kg	2.00		107	37-146	13.7	37.8	
Tetrachloroethene	2.17	0.050	mg/kg	2.00		108	66-153	14.4	58.9	
Toluene	1.97	0.050	mg/kg	2.00		98.5	75.1-137	13.9	20.7	
Surrogate: Toluene-d8	0.482		mg/kg	0.500		96.4	83.7-121			
Total Xylenes	6.25	0.150	mg/kg	6.00		104	70.9-136	13.9	19.9	
trans-1,2-Dichloroethene	2.21	0.050	mg/kg	2.00		111	61.6-163	15.5	34.4	
trans-1,3-Dichloropropene	2.07	0.050	mg/kg	2.00		104	53.5-143	12.3	44.1	
trans-1,4-Dichloro-2-butene	1.97	0.050	mg/kg	2.00		98.5	23.1-264	12.8	50.3	
Trichloroethene	2.03	0.050	mg/kg	2.00		102	60.7-142	14.0	36.2	
Trichlorofluoromethane	2.75	0.050	mg/kg	2.00		137	2.54-271	8.91	53.8	
Vinyl acetate	ND	0.250	mg/kg				0-198		20	
Vinyl chloride	1.62	0.050	mg/kg	2.00		81.2	27.3-182	9.81	27.6	

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Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4093003 - SW846-3510

##### Blank (4093003-BLK1)

Prepared: 09/30/14 Analyzed: 10/28/14

1,2,4,5-Tetrachlorobenzene	ND	0.040	mg/kg							
1,2,4-Trichlorobenzene	ND	0.200	mg/kg							
1,2-Dichlorobenzene	ND	0.040	mg/kg							
1,2-Diphenylhydrazine	ND	0.040	mg/kg							
1,3,5-Trinitrobenzene	ND	0.040	mg/kg							
1,3-Dichlorobenzene	ND	0.040	mg/kg							
1,4-Dichlorobenzene	2.04	0.200	mg/kg							B
1-Naphthylamine	ND	0.040	mg/kg							
2,3,4,6-Tetrachlorophenol	ND	0.040	mg/kg							
2,4,5-Trichlorophenol	ND	0.040	mg/kg							
Surrogate: 2,4,6-Tribromophenol	1.86		mg/kg	2.00		93.0	10-123			
2,4,6-Trichlorophenol	ND	0.040	mg/kg							
2,4-Dichlorophenol	ND	0.040	mg/kg							
2,4-Dimethylphenol	ND	0.200	mg/kg							
2,4-Dinitrophenol*	ND	0.040	mg/kg							
2,4-Dinitrotoluene	ND	0.040	mg/kg							
2,6-Dichlorophenol	ND	0.040	mg/kg							
2,6-Dinitrotoluene	ND	0.040	mg/kg							
2-Chloronaphthalene	ND	0.040	mg/kg							
2-Chlorophenol	ND	0.200	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.50		mg/kg	2.00		74.8	43-116			
Surrogate: 2-Fluorophenol	1.06		mg/kg	2.00		53.0	21-100			
2-Methylnaphthalene	ND	0.040	mg/kg							
2-Methylphenol	ND	0.040	mg/kg							
2-Naphthylamine	ND	0.040	mg/kg							
2-Nitroaniline	ND	0.040	mg/kg							
2-Nitrophenol	ND	0.040	mg/kg							
2-Picoline	ND	0.200	mg/kg							
3,3'-Dichlorobenzidine	ND	0.200	mg/kg							
3-Methylcholanthrene	ND	0.040	mg/kg							
3-Nitroaniline	ND	0.040	mg/kg							
4,6-Dinitro-2-methylphenol	ND	0.040	mg/kg							
4-Aminobiphenyl	ND	0.040	mg/kg							
4-Bromophenyl-phenyl ether	ND	0.200	mg/kg							
4-Chloro-3-methylphenol	ND	0.040	mg/kg							
4-Chloroaniline	ND	0.040	mg/kg							
4-Chlorophenyl-phenyl ether	ND	0.040	mg/kg							
4-Methylphenol	ND	0.040	mg/kg							

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4093003 - SW846-3510

##### Blank (4093003-BLK1)

Prepared: 09/30/14 Analyzed: 10/28/14

4-Nitroaniline	ND	0.040	mg/kg							
4-Nitrophenol	ND	0.040	mg/kg							
5-Nitro-o-toluidine	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acetophenone	ND	0.040	mg/kg							
Aniline	ND	0.200	mg/kg							
Anthracene	ND	0.040	mg/kg							
Azobenzene	ND	0.040	mg/kg							
Benzidine	ND	0.200	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.008	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Benzyl alcohol	ND	0.040	mg/kg							
bis(2-Chloroethoxy)methane	ND	0.040	mg/kg							
bis(2-Chloroethyl)ether	ND	0.200	mg/kg							
bis(2-Chloroisopropyl)ether	ND	0.040	mg/kg							
bis(2-Ethylhexyl)phthalate	0.461	0.040	mg/kg							B
bis(Chloromethyl)ether	ND	0.008	mg/kg							
Butylbenzylphthalate	0.115	0.040	mg/kg							B
Caprolactam	ND	0.200	mg/kg							
Carbazole	ND	0.040	mg/kg							
Chlorobenzilate	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Diallate	ND	0.200	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Dibenzofuran	ND	0.040	mg/kg							
Diethylphthalate	ND	0.040	mg/kg							
Dimethylaminoazobenzene	ND	0.040	mg/kg							
Dimethylphthalate	0.082	0.040	mg/kg							B
Di-n-butylphthalate	0.205	0.040	mg/kg							B
Di-n-octylphthalate	ND	0.200	mg/kg							
Dinoseb	ND	0.200	mg/kg							
Diphenylamine	ND	0.040	mg/kg							
Ethyl methanesulfonate	ND	0.200	mg/kg							
Fluoranthene	0.043	0.040	mg/kg							B
Fluorene	ND	0.040	mg/kg							

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Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4093003 - SW846-3510

##### Blank (4093003-BLK1)

Prepared: 09/30/14 Analyzed: 10/28/14

Hexachlorobenzene	ND	0.200	mg/kg							
Hexachlorobutadiene	ND	0.040	mg/kg							
Hexachlorocyclopentadiene	ND	0.040	mg/kg							
Hexachloroethane	ND	0.040	mg/kg							
Hexachloropropene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Isodrin	ND	0.040	mg/kg							
Isophorone	ND	0.040	mg/kg							
Isosafrole	ND	0.040	mg/kg							
Methyl methanesulfonate	ND	0.200	mg/kg							
Naphthalene	ND	0.040	mg/kg							
Nitrobenzene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	1.74		mg/kg	2.00		87.1	35-114			
N-Nitrosodimethylamine	ND	0.200	mg/kg							
N-Nitroso-di-n-butylamine	ND	0.040	mg/kg							
N-Nitrosodi-n-propylamine	ND	0.040	mg/kg							
N-Nitrosodiphenylamine	ND	0.040	mg/kg							
N-Nitrosopiperidine	ND	0.040	mg/kg							
Nonylphenol	ND	0.040	mg/kg							
Pentachlorobenzene	ND	0.040	mg/kg							
Pentachloroethane	ND	0.200	mg/kg							
Pentachloronitrobenzene	ND	0.040	mg/kg							
Pentachlorophenol	ND	0.040	mg/kg							
Phenacetin	ND	0.040	mg/kg							
Phenanthrene	0.054	0.040	mg/kg							B
Phenol	ND	0.200	mg/kg							
Surrogate: Phenol-d5	1.20		mg/kg	2.00		60.1	10-94			
Pronamide	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Pyridine	ND	0.200	mg/kg							
Quinoline	ND	0.040	mg/kg							
Safrole	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.62		mg/kg	2.00		80.9	33-141			

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4093003 - SW846-3510

##### LCS (4093003-BS1)

Prepared: 09/30/14 Analyzed: 10/28/14

1,2,4,5-Tetrachlorobenzene	0.376	0.040	mg/kg	0.400		94.0	40-160			
1,2,4-Trichlorobenzene	0.333	0.200	mg/kg	0.400		83.1	40-160			
1,2-Dichlorobenzene	0.274	0.040	mg/kg	0.400		68.4	40-160			
1,3,5-Trinitrobenzene	0.197	0.040	mg/kg	0.400		49.2	40-160			
1,3-Dichlorobenzene	0.270	0.040	mg/kg	0.400		67.5	40-160			
1,4-Dichlorobenzene	4.15	0.200	mg/kg	0.400		NR	40-160			BS1
1-Naphthylamine	0.130	0.040	mg/kg	0.400		32.4	40-160			BS2
2,3,4,6-Tetrachlorophenol	0.361	0.040	mg/kg	0.400		90.3	40-160			
2,4,5-Trichlorophenol	0.403	0.040	mg/kg	0.400		101	40-160			
Surrogate: 2,4,6-Tribromophenol	1.98		mg/kg	2.00		99.1	10-123			
2,4,6-Trichlorophenol	0.401	0.040	mg/kg	0.400		100	40-160			
2,4-Dichlorophenol	0.367	0.040	mg/kg	0.400		91.6	40-160			
2,4-Dimethylphenol	0.276	0.200	mg/kg	0.400		69.0	40-160			
2,4-Dinitrophenol*	0.220	0.040	mg/kg	0.400		54.9	40-160			
2,4-Dinitrotoluene	0.361	0.040	mg/kg	0.400		90.2	40-160			
2,6-Dichlorophenol	0.348	0.040	mg/kg	0.400		86.9	40-160			
2,6-Dinitrotoluene	0.378	0.040	mg/kg	0.400		94.6	40-160			
2-Chloronaphthalene	0.357	0.040	mg/kg	0.400		89.1	40-160			
2-Chlorophenol	0.297	0.200	mg/kg	0.400		74.1	40-160			
Surrogate: 2-Fluorobiphenyl	1.73		mg/kg	2.00		86.6	43-116			
Surrogate: 2-Fluorophenol	1.20		mg/kg	2.00		60.2	21-100			
2-Methylnaphthalene	0.392	0.040	mg/kg	0.400		97.9	40-160			
2-Methylphenol	0.297	0.040	mg/kg	0.400		74.2	40-160			
2-Naphthylamine	0.230	0.040	mg/kg	0.400		57.5	40-160			
2-Nitroaniline	0.385	0.040	mg/kg	0.400		96.2	40-160			
2-Nitrophenol	0.336	0.040	mg/kg	0.400		84.1	40-160			
2-Picoline	ND	0.200	mg/kg	0.400			40-160			BS2
3,3'-Dichlorobenzidine	0.225	0.200	mg/kg	0.400		56.3	40-160			
3-Methylcholanthrene	0.376	0.040	mg/kg	0.400		94.1	40-160			
3-Nitroaniline	0.342	0.040	mg/kg	0.400		85.6	40-160			
4,6-Dinitro-2-methylphenol	0.320	0.040	mg/kg	0.400		80.1	40-160			
4-Aminobiphenyl	0.120	0.040	mg/kg	0.400		29.9	40-160			BS2
4-Bromophenyl-phenyl ether	0.384	0.200	mg/kg	0.400		96.0	40-160			
4-Chloro-3-methylphenol	0.350	0.040	mg/kg	0.400		87.4	40-160			
4-Chloroaniline	0.303	0.040	mg/kg	0.400		75.8	40-160			
4-Chlorophenyl-phenyl ether	0.367	0.040	mg/kg	0.400		91.8	40-160			
4-Methylphenol	0.562	0.040	mg/kg	0.800		70.3	40-160			
4-Nitroaniline	0.332	0.040	mg/kg	0.400		83.1	40-160			

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4093003 - SW846-3510

##### LCS (4093003-BS1)

Prepared: 09/30/14 Analyzed: 10/28/14

4-Nitrophenol	0.345	0.040	mg/kg	0.400		86.2	40-160			
5-Nitro-o-toluidine	0.334	0.040	mg/kg	0.400		83.4	40-160			
Acenaphthene	0.372	0.040	mg/kg	0.400		93.0	40-160			
Acenaphthylene	0.376	0.040	mg/kg	0.400		94.1	40-160			
Acetophenone	0.315	0.040	mg/kg	0.400		78.7	40-160			
Aniline	0.210	0.200	mg/kg	0.400		52.6	40-160			
Anthracene	0.393	0.040	mg/kg	0.400		98.2	40-160			
Azobenzene	0.443	0.040	mg/kg	0.400		111	40-160			
Benzidine	ND	0.200	mg/kg	0.400			40-160			BS2
Benzo[a]anthracene	0.378	0.040	mg/kg	0.400		94.4	40-160			
Benzo[a]pyrene	0.386	0.008	mg/kg	0.400		96.6	40-160			
Benzo[b]fluoranthene	0.376	0.040	mg/kg	0.400		94.1	40-160			
Benzo[g,h,i]perylene	0.314	0.040	mg/kg	0.400		78.6	40-160			
Benzo[k]fluoranthene	0.409	0.040	mg/kg	0.400		102	40-160			
Benzyl alcohol	0.323	0.040	mg/kg	0.400		80.8	40-160			
bis(2-Chloroethoxy)methane	0.370	0.040	mg/kg	0.400		92.5	40-160			
bis(2-Chloroethyl)ether	0.275	0.200	mg/kg	0.400		68.8	40-160			
bis(2-Chloroisopropyl)ether	0.276	0.040	mg/kg	0.400		69.1	40-160			
bis(2-Ethylhexyl)phthalate	0.953	0.040	mg/kg	0.400		238	40-160			BS1
Butylbenzylphthalate	0.550	0.040	mg/kg	0.400		138	40-160			
Caprolactam	ND	0.200	mg/kg				40-160			
Carbazole	0.392	0.040	mg/kg	0.400		97.9	40-160			
Chlorobenzilate	0.390	0.040	mg/kg	0.400		97.6	40-160			
Chrysene	0.381	0.040	mg/kg	0.400		95.2	40-160			
Diallate	0.407	0.200	mg/kg	0.400		102	40-160			
Dibenz[a,h]anthracene	0.342	0.040	mg/kg	0.400		85.5	40-160			
Dibenzofuran	0.388	0.040	mg/kg	0.400		97.0	40-160			
Diethylphthalate	0.412	0.040	mg/kg	0.400		103	40-160			
Dimethylaminoazobenzene	0.267	0.040	mg/kg	0.400		66.6	40-160			
Dimethylphthalate	0.499	0.040	mg/kg	0.400		125	40-160			
Di-n-butylphthalate	0.656	0.040	mg/kg	0.400		164	40-160			BS1
Di-n-octylphthalate	0.435	0.200	mg/kg	0.400		109	40-160			
Dinoseb	0.305	0.200	mg/kg	0.400		76.3	40-160			
Diphenylamine	0.409	0.040	mg/kg	0.400		102	40-160			
Ethyl methanesulfonate	0.317	0.200	mg/kg	0.400		79.2	40-160			
Fluoranthene	0.434	0.040	mg/kg	0.400		108	40-160			
Fluorene	0.382	0.040	mg/kg	0.400		95.6	40-160			
Hexachlorobenzene	0.383	0.200	mg/kg	0.400		95.7	40-160			
Hexachlorobutadiene	0.333	0.040	mg/kg	0.400		83.2	40-160			

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4093003 - SW846-3510

##### LCS (4093003-BS1)

Prepared: 09/30/14 Analyzed: 10/28/14

Hexachlorocyclopentadiene	0.363	0.040	mg/kg	0.400		90.8	40-160			
Hexachloroethane	0.248	0.040	mg/kg	0.400		62.0	40-160			
Hexachloropropene	0.337	0.040	mg/kg	0.400		84.2	40-160			
Indeno[1,2,3-cd]pyrene	0.314	0.040	mg/kg	0.400		78.6	40-160			
Isodrin	0.349	0.040	mg/kg	0.400		87.3	40-160			
Isophorone	0.370	0.040	mg/kg	0.400		92.5	40-160			
Isosafrole	0.359	0.040	mg/kg	0.400		89.9	40-160			
Methyl methanesulfonate	0.328	0.200	mg/kg	0.400		82.0	40-160			
Naphthalene	0.313	0.040	mg/kg	0.400		78.3	40-160			
Nitrobenzene	0.362	0.040	mg/kg	0.400		90.5	40-160			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.88</i>		mg/kg	<i>2.00</i>		<i>94.1</i>	<i>35-114</i>			
N-Nitrosodimethylamine	0.277	0.200	mg/kg	0.400		69.3	40-160			
N-Nitroso-di-n-butylamine	0.289	0.040	mg/kg	0.400		72.2	40-160			
N-Nitrosodi-n-propylamine	0.280	0.040	mg/kg	0.400		70.1	40-160			
N-Nitrosopiperidine	0.357	0.040	mg/kg	0.400		89.4	40-160			
Pentachlorobenzene	0.366	0.040	mg/kg	0.400		91.6	40-160			
Pentachloroethane	0.279	0.200	mg/kg	0.400		69.6	40-160			
Pentachloronitrobenzene	0.388	0.040	mg/kg	0.400		97.0	40-160			
Pentachlorophenol	0.341	0.040	mg/kg	0.400		85.3	40-160			
Phenacetin	0.361	0.040	mg/kg	0.400		90.3	40-160			
Phenanthrene	0.464	0.040	mg/kg	0.400		116	40-160			
Phenol	0.304	0.200	mg/kg	0.400		76.1	40-160			
<i>Surrogate: Phenol-d5</i>	<i>1.28</i>		mg/kg	<i>2.00</i>		<i>63.8</i>	<i>10-94</i>			
Pronamide	0.401	0.040	mg/kg	0.400		100	40-160			
Pyrene	0.373	0.040	mg/kg	0.400		93.4	40-160			
Pyridine	ND	0.200	mg/kg	0.400			40-160			BS2
Safrole	0.354	0.040	mg/kg	0.400		88.4	40-160			
<i>Surrogate: Terphenyl-d14</i>	<i>1.82</i>		mg/kg	<i>2.00</i>		<i>91.1</i>	<i>33-141</i>			

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Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4093003 - SW846-3510

##### LCS Dup (4093003-BSD1)

Prepared: 09/30/14 Analyzed: 10/28/14

1,2,4,5-Tetrachlorobenzene	0.368	0.040	mg/kg	0.400		91.9	40-160	2.31	20	
1,2,4-Trichlorobenzene	0.341	0.200	mg/kg	0.400		85.4	40-160	2.64	20	
1,2-Dichlorobenzene	0.278	0.040	mg/kg	0.400		69.5	40-160	1.57	20	
1,3,5-Trinitrobenzene	0.217	0.040	mg/kg	0.400		54.2	40-160	9.66	20	
1,3-Dichlorobenzene	0.274	0.040	mg/kg	0.400		68.4	40-160	1.29	20	
1,4-Dichlorobenzene	3.91	0.200	mg/kg	0.400		978	40-160	5.78	20	BS1
1-Naphthylamine	0.138	0.040	mg/kg	0.400		34.6	40-160	6.44	20	BS2
2,3,4,6-Tetrachlorophenol	0.376	0.040	mg/kg	0.400		93.9	40-160	3.93	20	
2,4,5-Trichlorophenol	0.417	0.040	mg/kg	0.400		104	40-160	3.43	20	
Surrogate: 2,4,6-Tribromophenol	2.07		mg/kg	2.00		103	10-123			
2,4,6-Trichlorophenol	0.409	0.040	mg/kg	0.400		102	40-160	2.04	20	
2,4-Dichlorophenol	0.381	0.040	mg/kg	0.400		95.3	40-160	3.89	20	
2,4-Dimethylphenol	0.286	0.200	mg/kg	0.400		71.4	40-160	3.43	20	
2,4-Dinitrophenol*	0.259	0.040	mg/kg	0.400		64.8	40-160	16.6	20	
2,4-Dinitrotoluene	0.382	0.040	mg/kg	0.400		95.6	40-160	5.83	20	
2,6-Dichlorophenol	0.365	0.040	mg/kg	0.400		91.3	40-160	4.98	20	
2,6-Dinitrotoluene	0.379	0.040	mg/kg	0.400		94.7	40-160	0.0845	20	
2-Chloronaphthalene	0.361	0.040	mg/kg	0.400		90.3	40-160	1.35	20	
2-Chlorophenol	0.303	0.200	mg/kg	0.400		75.7	40-160	2.08	20	
Surrogate: 2-Fluorobiphenyl	1.71		mg/kg	2.00		85.7	43-116			
Surrogate: 2-Fluorophenol	1.19		mg/kg	2.00		59.4	21-100			
2-Methylnaphthalene	0.408	0.040	mg/kg	0.400		102	40-160	4.02	20	
2-Methylphenol	0.307	0.040	mg/kg	0.400		76.9	40-160	3.48	20	
2-Naphthylamine	0.244	0.040	mg/kg	0.400		60.9	40-160	5.69	20	
2-Nitroaniline	0.405	0.040	mg/kg	0.400		101	40-160	5.22	20	
2-Nitrophenol	0.356	0.040	mg/kg	0.400		88.9	40-160	5.58	20	
2-Picoline	ND	0.200	mg/kg	0.400			40-160		20	BS2
3,3'-Dichlorobenzidine	0.229	0.200	mg/kg	0.400		57.2	40-160	1.58	20	
3-Methylcholanthrene	0.389	0.040	mg/kg	0.400		97.3	40-160	3.39	20	
3-Nitroaniline	0.383	0.040	mg/kg	0.400		95.8	40-160	11.3	20	
4,6-Dinitro-2-methylphenol	0.344	0.040	mg/kg	0.400		86.0	40-160	7.07	20	
4-Aminobiphenyl	0.126	0.040	mg/kg	0.400		31.6	40-160	5.40	20	BS2
4-Bromophenyl-phenyl ether	0.379	0.200	mg/kg	0.400		94.8	40-160	1.33	20	
4-Chloro-3-methylphenol	0.368	0.040	mg/kg	0.400		92.1	40-160	5.20	20	
4-Chloroaniline	0.326	0.040	mg/kg	0.400		81.5	40-160	7.24	20	
4-Chlorophenyl-phenyl ether	0.381	0.040	mg/kg	0.400		95.2	40-160	3.62	20	
4-Methylphenol	0.588	0.040	mg/kg	0.800		73.5	40-160	4.48	20	
4-Nitroaniline	0.389	0.040	mg/kg	0.400		97.3	40-160	15.7	20	

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Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4093003 - SW846-3510

#### LCS Dup (4093003-BSD1)

Prepared: 09/30/14 Analyzed: 10/28/14

4-Nitrophenol	0.416	0.040	mg/kg	0.400		104	40-160	18.8	20	
5-Nitro-o-toluidine	0.366	0.040	mg/kg	0.400		91.6	40-160	9.28	20	
Acenaphthene	0.379	0.040	mg/kg	0.400		94.7	40-160	1.73	20	
Acenaphthylene	0.379	0.040	mg/kg	0.400		94.6	40-160	0.564	20	
Acetophenone	0.326	0.040	mg/kg	0.400		81.6	40-160	3.61	20	
Aniline	0.218	0.200	mg/kg	0.400		54.5	40-160	3.52	20	
Anthracene	0.398	0.040	mg/kg	0.400		99.5	40-160	1.39	20	
Azobenzene	0.435	0.040	mg/kg	0.400		109	40-160	1.97	20	
Benzidine	ND	0.200	mg/kg	0.400			40-160		20	BS2
Benzo[a]anthracene	0.382	0.040	mg/kg	0.400		95.6	40-160	1.24	20	
Benzo[a]pyrene	0.401	0.008	mg/kg	0.400		100	40-160	3.72	20	
Benzo[b]fluoranthene	0.390	0.040	mg/kg	0.400		97.6	40-160	3.68	20	
Benzo[g,h,i]perylene	0.321	0.040	mg/kg	0.400		80.2	40-160	2.05	20	
Benzo[k]fluoranthene	0.413	0.040	mg/kg	0.400		103	40-160	0.967	20	
Benzyl alcohol	0.336	0.040	mg/kg	0.400		84.0	40-160	3.93	20	
bis(2-Chloroethoxy)methane	0.391	0.040	mg/kg	0.400		97.7	40-160	5.44	20	
bis(2-Chloroethyl)ether	0.283	0.200	mg/kg	0.400		70.7	40-160	2.73	20	
bis(2-Chloroisopropyl)ether	0.285	0.040	mg/kg	0.400		71.2	40-160	2.97	20	
bis(2-Ethylhexyl)phthalate	0.964	0.040	mg/kg	0.400		241	40-160	1.10	20	BS1
Butylbenzylphthalate	0.558	0.040	mg/kg	0.400		139	40-160	1.32	20	
Caprolactam	ND	0.200	mg/kg				40-160		20	
Carbazole	0.421	0.040	mg/kg	0.400		105	40-160	7.22	20	
Chlorobenzilate	0.391	0.040	mg/kg	0.400		97.6	40-160	0.0282	20	
Chrysene	0.387	0.040	mg/kg	0.400		96.8	40-160	1.64	20	
Diallate	0.401	0.200	mg/kg	0.400		100	40-160	1.54	20	
Dibenz[a,h]anthracene	0.352	0.040	mg/kg	0.400		88.0	40-160	2.97	20	
Dibenzofuran	0.389	0.040	mg/kg	0.400		97.3	40-160	0.247	20	
Diethylphthalate	0.419	0.040	mg/kg	0.400		105	40-160	1.56	20	
Dimethylaminoazobenzene	0.269	0.040	mg/kg	0.400		67.2	40-160	0.896	20	
Dimethylphthalate	0.501	0.040	mg/kg	0.400		125	40-160	0.310	20	
Di-n-butylphthalate	0.688	0.040	mg/kg	0.400		172	40-160	4.74	20	BS1
Di-n-octylphthalate	0.444	0.200	mg/kg	0.400		111	40-160	2.02	20	
Dinoseb	0.341	0.200	mg/kg	0.400		85.3	40-160	11.1	20	
Diphenylamine	0.403	0.040	mg/kg	0.400		101	40-160	1.41	20	
Ethyl methanesulfonate	0.324	0.200	mg/kg	0.400		81.0	40-160	2.28	20	
Fluoranthene	0.460	0.040	mg/kg	0.400		115	40-160	5.83	20	
Fluorene	0.388	0.040	mg/kg	0.400		97.0	40-160	1.50	20	
Hexachlorobenzene	0.374	0.200	mg/kg	0.400		93.5	40-160	2.41	20	
Hexachlorobutadiene	0.336	0.040	mg/kg	0.400		83.9	40-160	0.871	20	

Green Analytical Laboratories

*Debbie Zufelt*

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 4093003 - SW846-3510

##### LCS Dup (4093003-BSD1)

Prepared: 09/30/14 Analyzed: 10/28/14

Hexachlorocyclopentadiene	0.394	0.040	mg/kg	0.400		98.5	40-160	8.12	20	
Hexachloroethane	0.254	0.040	mg/kg	0.400		63.5	40-160	2.50	20	
Hexachloropropene	0.348	0.040	mg/kg	0.400		87.0	40-160	3.31	20	
Indeno[1,2,3-cd]pyrene	0.321	0.040	mg/kg	0.400		80.2	40-160	2.05	20	
Isodrin	0.358	0.040	mg/kg	0.400		89.6	40-160	2.52	20	
Isophorone	0.389	0.040	mg/kg	0.400		97.3	40-160	5.03	20	
Isosafrole	0.361	0.040	mg/kg	0.400		90.3	40-160	0.511	20	
Methyl methanesulfonate	0.330	0.200	mg/kg	0.400		82.5	40-160	0.657	20	
Naphthalene	0.327	0.040	mg/kg	0.400		81.7	40-160	4.26	20	
Nitrobenzene	0.376	0.040	mg/kg	0.400		94.1	40-160	3.93	20	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.95</i>		mg/kg	<i>2.00</i>		<i>97.3</i>	<i>35-114</i>			
N-Nitrosodimethylamine	0.277	0.200	mg/kg	0.400		69.2	40-160	0.101	20	
N-Nitroso-di-n-butylamine	0.311	0.040	mg/kg	0.400		77.8	40-160	7.45	20	
N-Nitrosodi-n-propylamine	0.294	0.040	mg/kg	0.400		73.4	40-160	4.64	20	
N-Nitrosopiperidine	0.371	0.040	mg/kg	0.400		92.8	40-160	3.79	20	
Pentachlorobenzene	0.369	0.040	mg/kg	0.400		92.1	40-160	0.607	20	
Pentachloroethane	0.275	0.200	mg/kg	0.400		68.9	40-160	1.12	20	
Pentachloronitrobenzene	0.394	0.040	mg/kg	0.400		98.5	40-160	1.46	20	
Pentachlorophenol	0.362	0.040	mg/kg	0.400		90.5	40-160	5.98	20	
Phenacetin	0.389	0.040	mg/kg	0.400		97.1	40-160	7.33	20	
Phenanthrene	0.471	0.040	mg/kg	0.400		118	40-160	1.57	20	
Phenol	0.308	0.200	mg/kg	0.400		77.0	40-160	1.21	20	
<i>Surrogate: Phenol-d5</i>	<i>1.29</i>		mg/kg	<i>2.00</i>		<i>64.7</i>	<i>10-94</i>			
Pronamide	0.412	0.040	mg/kg	0.400		103	40-160	2.69	20	
Pyrene	0.366	0.040	mg/kg	0.400		91.6	40-160	1.89	20	
Pyridine	ND	0.200	mg/kg	0.400			40-160		20	BS2
Safrole	0.369	0.040	mg/kg	0.400		92.3	40-160	4.28	20	
<i>Surrogate: Terphenyl-d14</i>	<i>1.77</i>		mg/kg	<i>2.00</i>		<i>88.4</i>	<i>33-141</i>			

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Little Fishes, LLC  
536 CR 307  
Durango CO, 81303

Project: Organics & Salinity  
Project Name / Number: [none]  
Project Manager: Lonnie Malouff

Reported:  
10/31/14 10:22

### Notes and Definitions

BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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# CHAIN OF CUSTODY RECORD

Page 1 of 1

Client: Little Fishes LLC

Contact: Lonnie Malouff

Address: 536 CR 307 Durango CO

Call w/questions 605-939-0650 81363 Designate Sample Reject Disposition.

Phone Number: 759-5555

Email: STLiberty@aol.com

## NOTES:

1) Ensure proper container packaging.

2) Ship samples promptly following collection.

PO#

Project Name:

Table 1. - Matrix Type

1 = Surface Water, 2 = Ground Water  
3 = Soil/Sediment, 4 = Prod. W., 5 = Oil  
6 = Waste, 7 = Other (Specify) \_\_\_\_\_

FOR GAL USE ONLY

GAL JOB #

1410-192

Samplers Signature: N. A. Barton

Chain of Custody

Lab Name: Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227

Address: 75 Suttle Street, Durango, CO 81303 www.greenanalytical.com

## Analyses Required

18°C  
#18

Comments

Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	Preservative(s)					Other (Specify)	Analyses Required					Comments
								HNO3	HCL	H2SO4	NAOH			TPH	VOC	SVOC	Salinity (Cl, EC, etc.)		
1. <u>DPH1</u>	<u>17oct14</u>	<u>1500</u>	<u>MB</u>	<u>3</u>	<u>2</u>	<u>N</u>	<u>X</u>							<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
2. <u>DPH2</u>	<u>17oct14</u>	<u>1510</u>	<u>MB</u>	<u>3</u>	<u>2</u>	<u>N</u>	<u>X</u>							<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
3. <u>DPH3</u>	<u>17oct14</u>	<u>1540</u>	<u>MB</u>	<u>3</u>	<u>2</u>	<u>N</u>	<u>X</u>							<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
4. <u>DPH4</u>	<u>17oct14</u>	<u>1600</u>	<u>MB</u>	<u>3</u>	<u>2</u>	<u>N</u>	<u>X</u>							<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			
Relinquished by: <u>N. A. Barton</u>	Date: <u>17oct14</u>	Time: <u>1640</u>	Received by: <u>Michael J. Luvette</u>	Date: <u>10-17-14</u>	Time: <u>1640</u>														
Relinquished by:	Date:	Time:	Received by:	Date:	Time:														
Relinquished by:	Date:	Time:	Received by:	Date:	Time:														